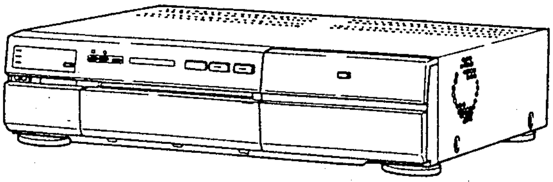
HITACHI

TK No.8406E

# VY-170(A)H

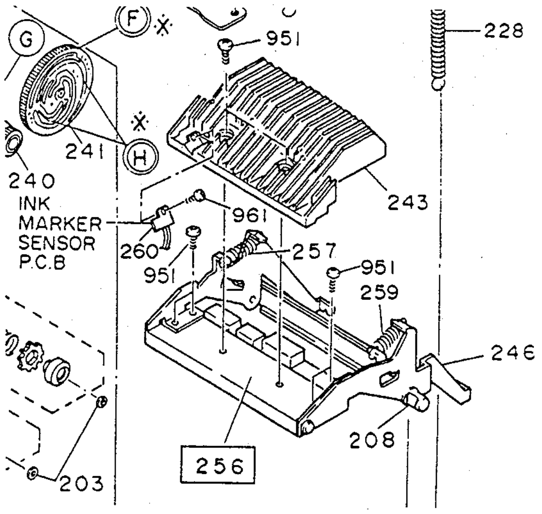


Model VY-170(A)H is produced by modifying the thermal head of the previous VY-170(A) to a BP-film type (long-life type).
This manual includes only the differences from the VY-170(A).
Refer to the following manuals for complete information.

**MANUALS RELATED TO THE VY-170(A)H**

| Name of Model | Language | Manual No. | Chapters included |
|---|---|---|---|
| VY-170(A) | English | 3693E | Chapters 1 - 8 |
| VY-170(A) Supplement | English | 3728E | Chapters 1 and 4 - 8 |

**EXPLODED VIEW [PRINT MECHANISM SECTION]**


G
F
※
951
228
241
※
H
240
INK MARKER SENSOR P.C.B
243
961
260
951
257
951
259
246
208
256
203

**REPLACEMENT PARTS LIST [MECHANICAL PARTS LIST]**

| SYMBOL-No | P - No | DESCRIPTION |
|---|---|---|
| 256 | 5443611 | THERMAL HEAD |

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

# COLOR VIDEO PRINTER

March 1994 TOKAI Consumer Electronics Division

# HITACHI

# SERVICE MANUAL

TK

No.3728E

# VY-170 (A),(E)
# VY-300 (A),(E)

## SUPPLEMENT

**Note:**
This manual is a supplement to the VY-170(A),(E)/ VY-300(A),(E) Technical Data (No. 3693E). Since this manual shows only changes and corrections, use it together with the above Technical Data manual.

**MANUALS RELATED TO THE VY-170(A),(E)/300(A),(E)**

| Name of Manual | Language | Manual No. | Chapters included |
|---|---|---|---|
| Technical Data | English | 3693E | Chapters 1 - 8 |
| Supplement | English | 3728E | Chapters 1 and 4 - 8 |

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

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# COLOR VIDEO PRINTER

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January 1993 TOKAI Consumer Electronics Division

# SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

1. When replacing a chassis in the instrument, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment covers/shields, isolation resistors/capacitors, etc.
2. When service is required, observe the original lead-dress. Extra precautions should be taken to assure correct lead dress in the high voltage circuit.
3. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacturer's. Furthermore, where a short-circuit has occurred, replace those components that indicate evidence of overheating.
4. Before returning an instrument to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become defective or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.

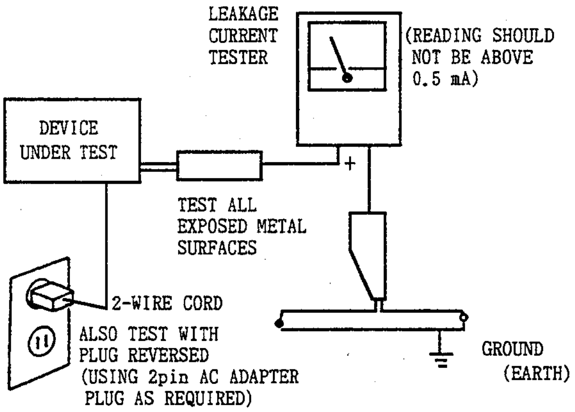
## Leakage Current Cold Check

With the AC plug removed from the power source (America: AC120V, 60Hz / Europe: AC220V, 50Hz), place a jumper across the two plug prongs.
Turn the AC power switch on. Using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to exposed metal parts (screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a resistor reading more than 4 Mohm-America / 20 Mohm-Europe. Any resistor value less than 4 Mohm-America / 20 Mohm-Europe indicates an abnormality which requires corrective action.
Exposed metal parts not having a return path to the chassis will indicate an open circuit.

## Leakage Current Hot Check

Plug the AC line cord directly into an outlet (America : AC120V, 60Hz / Europe : AC220V, 50Hz). (Do not use an isolation transformer for this check, and do not connect the ground plug of the 3 wires AC line cord to the earth.)

Turn the AC power switch on. Using a "Leakage Current Tester", measure for current from all exposed metal parts of the cabinet ( screwheads, metal overlays, control shaft, etc.), particularly an exposed metal part having a return path to the chassis, to a known ground (earth) (water pipe, conduit, etc.). Any current measured must not exceed 0.5 mA.


LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5 mA)
DEVICE UNDER TEST
+
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING 2pin AC ADAPTER PLUG AS REQUIRED)
GROUND (EARTH)

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE UNIT TO THE CUSTOMER.

## PRODUCT SAFETY NOTICE

Many electrical and mechanical parts have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for a higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified by marking with a ⚠ on the schematics and the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards. Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies for, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

## COMPARISON WITH EXISTING MODELS [For PAL]

| Item | | VY–170(E) | VY–150E | VY–300(E) |
|---|---|---|---|---|
| Principle | | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink |
| Gradations (frame picture) | | 256 | 64 | 256 |
| Dot structure (V x H) | | 560 x 720 dots<br>576 x 766 dots (Max.) | 563 x 640 dots | 560 x 720 dots<br>576 x 766 dots (Max.) |
| Dot density | | Ver. 7.1 dots/mm<br>Hor. 7.0 dots/mm | Ver. 6.7 dots/mm<br>Hor. 5.8 dots/mm | Ver. 7.1 dots/mm<br>Hor. 7.0 dots/mm |
| Built-in memory | | 8-bit RGB, 1 frame | 6-bit Y/color-difference | 8-bit RGB, 4 frames |
| Speed | | Appr. 58 sec/print | Appr. 110 sec/print | Appr. 58 sec/print |
| Ink paper | | VY-SS50,<br>VY-SC30W | VY-SS50,<br>VY-SC30W | VY-SS50,<br>VY-SC30W |
| I/O terminals | Video | O (BNC terminals) | O (US pins)<br>(EURO Jack) | O (BNC terminals) |
| | Y/C | O (S terminals) | O (S terminals) | O (S terminals) |
| | RGB BNC | O (BNC terminals) | O BNC terminals<br>(Input only) | O (BNC terminals) |
| | RGB analog | X | X | X |
| | RGB TTL | X | X | X |
| Auto scan | | X | X | X |
| Interface | | X | X | Parallel, RS-232C |
| Divided print | | O (2/4/16/25) | X | O (2/4/16/25) |
| Double-enlarged print | | O | X | O |
| Black-and-white print | | O | X | O |
| Character insertion print | | X | X | O |
| Gamma select video/linear | | O | X | O |
| Variable print area | | O | X | O |
| Remote control (wired) | | O | X | O |
| Copies | | Max. 50<br>(CONTINUE mode available) | Max. 3<br>(CONTINUE mode available) | Max. 50<br>(CONTINUE mode available) |
| Data/title superimpose | | X | O | X |
| Print counter | | OSD | Mechanical | OSD |
| Printer control terminal | | X | X | X |

## COMPARISON WITH EXISTING MODELS [For NTSC]

| Item | | VY–170(A) | VY–150A | VY–300(A) | VY-200A |
|---|---|---|---|---|---|
| Principle | | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink |
| Gradations (frame picture) | | 256 | 64 | 256 | 128 |
| Dot structure (V x H) | | 464 x 720 dots<br>496 x 766 dots (Max.) | 466 x 512 dots | 464 x 720 dots<br>496 x 766 dots (Max.) | 464 x 616 dots |
| Dot density | | Ver. 6 dots/mm<br>Hor. 7.2 dots/mm | Ver. 6 dots/mm<br>Hor. 6 dots/mm | Ver. 6 dots/mm<br>Hor. 7.2 dots/mm | Ver. 6 dots/mm<br>Hor. 6 dots/mm |
| Built-in memory | | 8-bit RGB<br>1 frame | 6-bit Y/color-difference | 8-bit RGB<br>4 frames | 7-bit RGB<br>1 frame |
| Speed | | Appr. 58 sec/ print | Appr. 100 sec/ print | Appr. 58 sec/ print | Appr. 90 sec/ print |
| Ink paper | | VY-SS50,<br>VY-SS50M,<br>VY-SC30W,<br>VY-SN30 type | VY-SS50,<br>VY-SC30W,<br>VY-SN30 type | VY-SS50,<br>VY-SS50M,<br>VY-SC30W,<br>VY-SN30 type | VY-S, VY-SX,<br>VY-SX-M type |
| I/O terminals | Video | O (BNC terminals) | O (US pins)<br>(Front x 1/Rear x 1) | O (BNC terminals) | O (BNC terminals) |
| | Y/C | O (S terminals) | O (S terminals)<br>(Front x 1/Rear x 1) | O (S terminals) | O (S terminals) |
| | RGB BNC | O (BNC terminals) | O BNC terminals (Input only) | O (BNC terminals) | O (BNC terminals) |
| | RGB analog | X | X | X | O (D-SUB15) |
| | RGB TTL | X | X | X | O (D-SUB9) |
| Auto scan | | X | X | X | O |
| Interface | | X | X | Parallel<br>RS-232C (D-SUB9) | Parallel<br>RS-232C (25P) |
| Divided print | | O (2/4/16/25) | X | O (2/4/16/25) | O (4/16/25) |
| Double-enlarged print | | O | X | O | X |
| Black-and-white print | | O | X | O | O |
| Character insertion print | | X | X | O | X |
| Gamma select video/linear | | O | X | O | O |
| Variable print area | | O | X | O | O |
| Remote control (wired) | | O | O | O | O |
| Copies | | Max. 50 (CONTINUE mode available) | Max. 3 (CONTINUE mode available) | Max. 50 (CONTINUE mode available) | Max. 9 |
| Data/title superimpose | | X | O | X | X |
| Print counter | | OSD | Mechanical | OSD | Mechanical |
| Printer control terminal | | X | O | X | X |

## Specifications

| Model | | VY-300(E) | VY-170(E) |
|---|---|---|---|
| Recording method | | Sublimable dye thermal transfer line printing | |
| Print quality | | 256-gradation frame picture, 16,770,000 colours | |
| Number of print pixels | | 560 × 720 dots (standard size)<br>576* × 766 dots (maximum size) | |
| Picture memory | | RGB frame<br>4-frame (8-field) memory | RGB frame<br>1-frame (2-field) memory |
| Print time | | About 58 seconds per picture (standard print) | |
| Print media | | Ink: cartridge type (special)<br>3-colour plane sequential printing (yellow, magenta, cyan)<br>Recording paper: 100 × 140mm cut paper<br>Print size: 79 × 103mm (standard)<br>81.3 × 109.5mm (maximum) | |
| Input jacks | | Video input: BNC jack 1.0Vp-p 75 Ω<br>Y/C input: S jack screw lock type Y (luma signal) 1.0Vp-p 75 Ω<br>C (chroma signal) 0.3Vp-p 75 Ω<br>RGB input: BNC jack RGB 0.7Vp-p 75 Ω positive polarity.<br>C.Sync 0.3-4.0Vp-p 75 Ω positive/negative polarity | |
| Output jacks | | Video output: BNC jacks 1.0Vp-p 75 Ω<br>Y/C output: S jack screw lock type Y (luma signal) 1.0Vp-p 75 Ω<br>C (chroma signal) 0.3Vp-p 75 Ω<br>RGB output: BNC jack RGB 0.7Vp-p 75 Ω positive polarity.<br>C.Sync 0.3-1.2Vp-p 75 Ω positive/negative polarity | |
| Interface | | Parallel interface<br>(Centronix ® standard)<br>36-pin Amphenol plug<br>RS-232C interface standard D-SUB9 | –<br>– |
| Additional functions | Mirror reverse printing | ○ | |
| | Negative/positive reverse printing | ○ | |
| | Comment function | ○ | – |
| | Single-frame memory | 4, 16 and 25 pictures | |
| | Storobe memory | 1/25, 1/12, 1/4 and 1/2 second | |
| | Multiple same picture printing | 2, 4, 16 and 25 pictures | |
| | P-in-P memory | ○ | |
| | Gamma characteristics | Two types (video and linear) | |
| | Remote controller | Wired (Provided) | Wired (Option) VY – RM170 |
| | 2X zoom | ○ | |
| | B/W print | ○ | |
| Input adjustment | | Colour, contrast, brightness | |
| Permissible operating temperatures | | 5℃~35℃ | |
| Permissible relative humidity | | 20%~75% | |
| Power input | | AC 220-240V 50/60Hz 0.8A | |
| Outside dimensions | | 17-1/8″ (W) × 4-3/8″ (H) × 14-3/8″ (D)<br>435(W) × 111(H) × 365(D)mm | |
| Weight | | 8.1kg | 8.0kg |
| Part provided | | Mains lead ······························ 1<br>Video print kit box (for 30 sheets)····· 1<br>Remote controller VY – RM170 ····· 1 | Mains lead ······························ 1<br>Video print kit box (for 30 sheets)······ 1 |

* 560 dots with comment on. (VY-300 only)

- These specifications and the external appearance of the units, may be changed without notice in order to make improvements.

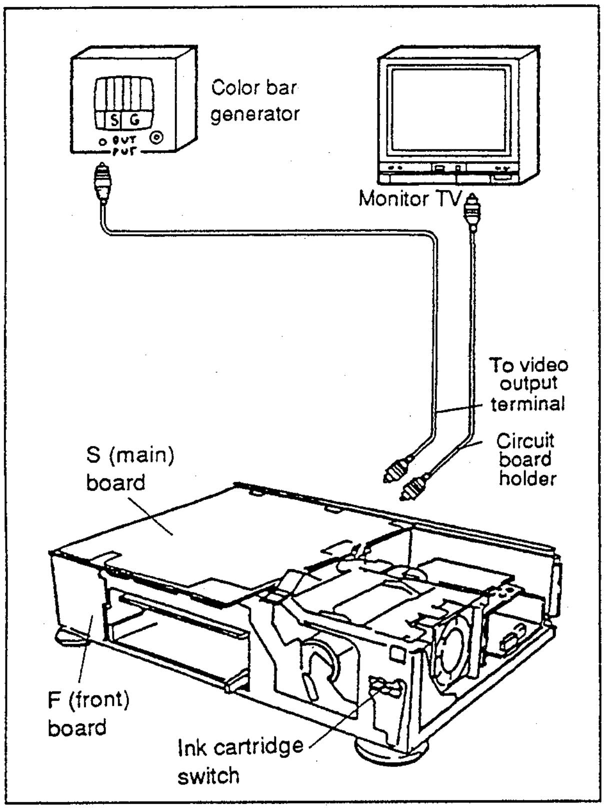
## ADJUSTMENT OF ELECTRICAL CIRCUITS

- **Measuring instruments needed for adjustment**
  1) Dual-beam oscilloscope
     - Bandwidth: 10 MHz or more
     - Probe: 10 to 1
  2) Color bar generator
  3) Frequency counter
  4) Vectorscope
  5) DC voltmeter
  6) Monitor TV
- **Connections of the measuring instruments**
  Connect the measuring instruments normally as shown here unless otherwise specified.
  1) Connect the color bar generator to the video input terminal (rear panel) of the printer.
  2) Connect the monitor TV to the video output terminal of the printer.
- **Servicing positions**
  Make preparation as follows.
  1) Remove the top cover,
  2) Make adjustment from the pattern sides of the circuit boards.
- **Setting up**
  Set up the printer as follows.
  1) POWER: ON
  2) Press S902 (DISPLAY) and make sure the monitor TV displays information as follows.

| | |
|---|---|
| PRINT MODE | NORM<br>V.GAMMA |
| PRINT COUNT | 1 |
| ONE TOUCH PRINT | OFF |
| MEMORY FRAME 1 | N |
| MULTI MODE | OFF |
| PICTURE | STD |
| INPUT | VIDEO |

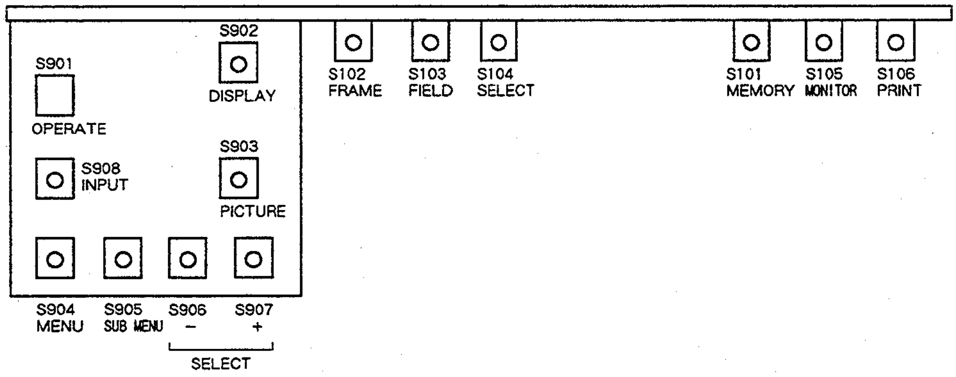
If some items vary, display MENU and set up as shown above.

3) Ink cassette: Removed
4) Warm up: About 1 minute

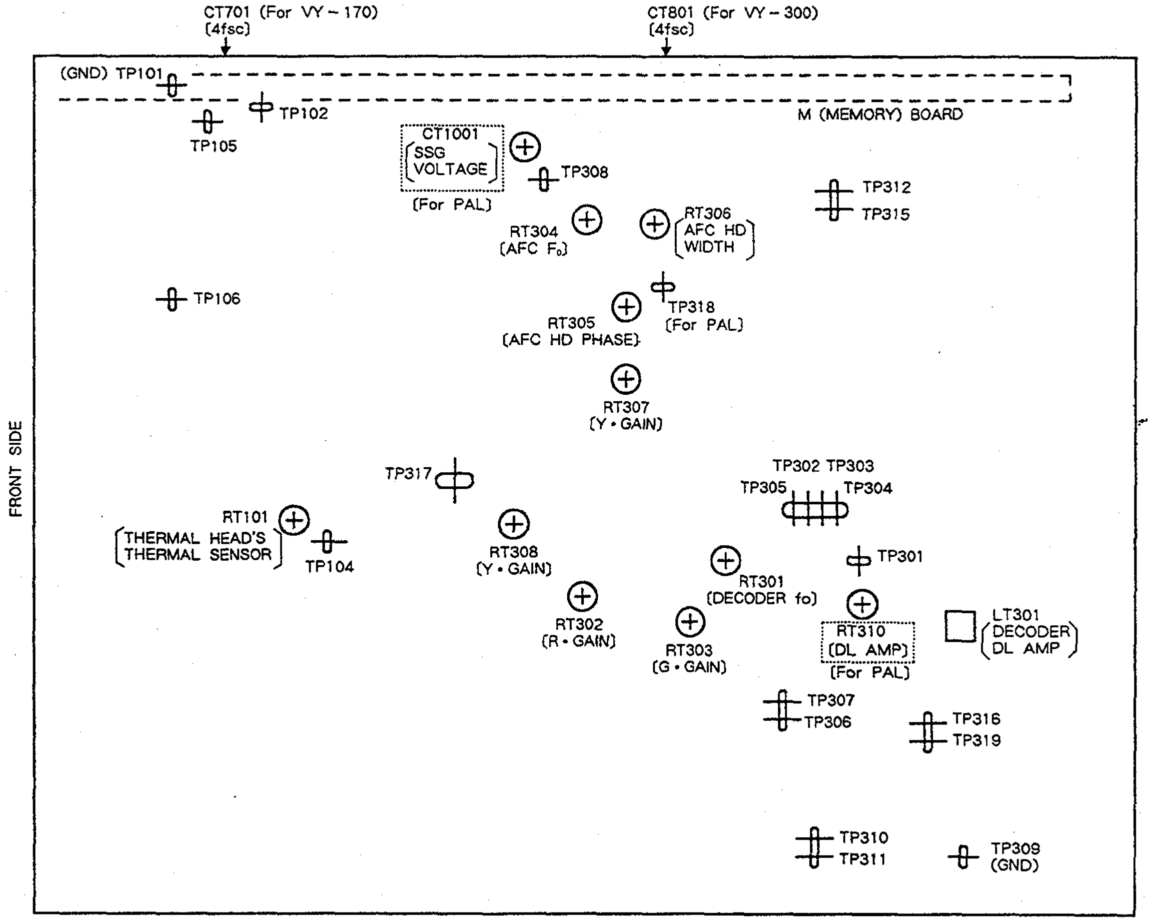

Color bar generator
S G
OUT
Monitor TV
To video output terminal
Circuit board holder
S (main) board
F (front) board
Ink cartridge switch

5) Settings of rear panel switches
S1101 SYNC 75Ω/Hi switch: 75Ω
S1102 SYNC NEGA/POSI switch: NEGA
S1103 RGB 75Ω/Hi switch: 75Ω
* S1104 Front control switch: ON
  * S1104 is provided only with the VY-300.

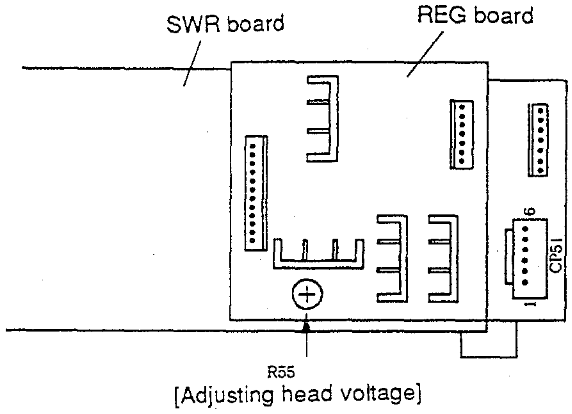
- **Layout of parts of circuit boards**
  1) F (front) board [Components side]


S901
OPERATE
S902
DISPLAY
S903
PICTURE
S908
INPUT
S904
MENU
S905
SUB MENU
S906
–
S907
+
SELECT
S102
FRAME
S103
FIELD
S104
SELECT
S101
MEMORY
S105
MONITOR
S106
PRINT

2) S (main) board [Solder side]


CT701 (For VY-170)
(4fsc)
CT801 (For VY-300)
(4fsc)
(GND) TP101
TP102
TP105
M (MEMORY) BOARD
CT1001
SSG
VOLTAGE
(For PAL)
TP308
TP312
TP315
RT304
(AFC F0)
RT306
AFC HD
WIDTH
TP106
TP318
(For PAL)
RT305
(AFC HD PHASE)
RT307
(Y • GAIN)
FRONT SIDE
TP317
TP302 TP303
TP305
TP304
RT101
THERMAL HEAD'S
THERMAL SENSOR
TP104
RT308
(Y • GAIN)
TP301
RT301
(DECODER fo)
RT302
(R • GAIN)
RT303
(G • GAIN)
RT310
(DL AMP)
(For PAL)
LT301
DECODER
DL AMP
TP307
TP306
TP316
TP319
TP310
TP311
TP309
(GND)

3) REG (regulator) board [Components side]


SWR board
REG board
CP51
6
1
R55
[Adjusting head voltage]

**Setting the reference signal**

The video signal supplied from the color bar generator will be used as the reference signal. Adjust the output level of the oscilloscope to put the video output signal within the required range.

[Setting the luminance component]

Connect the color bar generator output directly to the oscilloscope and adjust the signal level as shown below (terminated with 75Ω). (If no termination resistor is used, double the signal level.)

[Setting the chroma components]

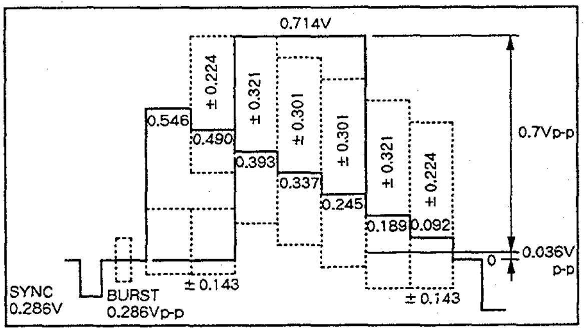
Connect the color bar generator output to the vectorscope and adjust the phase and amplitude of the burst and chroma signals properly.

(Initialize the vectorscope as follows.

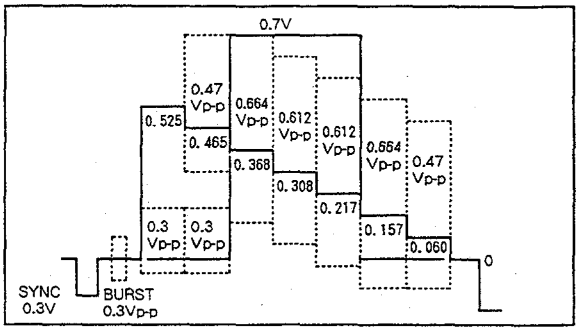
For amplitude, CAL: OFF

For phase, burst: 180°C)

(for NTSC)



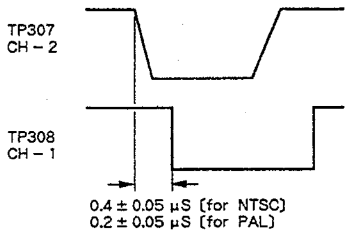
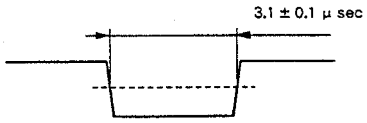
(for PAL)



## 1. Adjustments (Make adjustment in the order described below.)

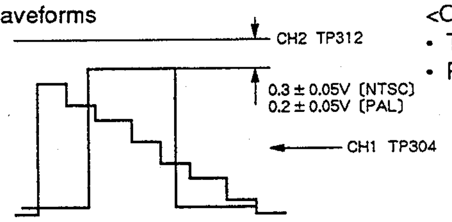
- **Initialization**

1) Short TP105 and TP106 on the S (main) board.
2) Depress S904 (MENU switch) on the F (front) board --> INIT MENU appears.
3) Press S904 (MENU switch) to set the cursor to "INIT ADJ".
4) Depress S905 (SUB MENU switch) on the F (front) board. --> INIT ADJ screen appears (make sure the value is +32).

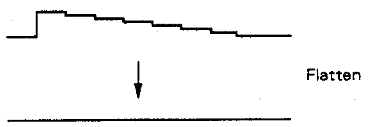
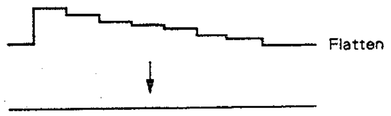
| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 0 | Thermal head's thermal sensor initialization | • Apply no signal | • Monitor screen (OSD) | • RT101 (S-board) | 1) Keeping S105 (MONITOR switch) on the S (main) board pressed, press S902 (DISPLAY switch) on the F (front) board. --> OSD indication (Dα) appears on the monitor screen.<br>2) Short TP104 and TP101 (GND).<br>3) Turn RT101 until OSD indication "D10" changes to "D9".<br>4) Remove the shorting between TP104 and TP101.<br>5) Press S902 (DISPLAY switch) on the F (front) board to turn off OSD indication. |
| 1 | AFC Fo | • Apply no signal. | • TP318 [PAL]<br>• TP308 [NTSC] (S-board) | • RT304 (S-board) | 1) Connect the frequency counter to TP318 [PAL] or TP308 [NTSC].<br>2) Adjust RT304 so that the frequency counter reads 15,600±20 Hz. |
| 2 | AFC HD phase | • Apply the full color bar signal. | • CH-1: TP308 (S-board)<br>• CH-2: TP307 (S-board) | • RT305 | 1) Connect the oscilloscope to TP308 and TP307.<br>2) Set the phase from the fall of the waveform at TP307 to the fall at TP308 to 0.2 ±0.05 µs. --> [for PAL] to 0.4 ±0.05 µs. --> [for NTSC] |
| | Waveforms   TP307<br>CH – 2<br>TP308<br>CH – 1<br>0.4 ± 0.05 µS [for NTSC]<br>0.2 ± 0.05 µS [for PAL] | <Oscilloscope setting><br>• Trigger: TP308 (S-board)<br>• CH-1: 2 V/div.<br>• CH-2: 0.2 V/div.<br>0.1 µsec/div. | | | |
| 3 | AFC HD width | • Apply the full color bar signal. | • TP308 (S-board) | • RT306 (S-board) | 1) Connect the oscilloscope to TP308.<br>2) Adjust RT306 so that the HD pulse width becomes 3.1±0.1 µs. |
| | Waveform  | <Oscilloscope setting><br>• Trigger: Self-trigger<br>• Range: 2 V/div., 1 µs/div. | | | |

- **Setting input mode**

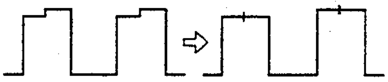
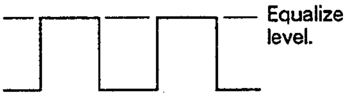
1) Press S908 (INPUT switch) on the F (front) board and select "VIDEO".

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">4</td><td>Brightness</td><td>• Apply the half color bar (black & white) signal.</td><td>• CH-1: TP315<br>• CH-2: TP305<br>(S-board)</td><td>• S906<br>[–] button<br>• S907<br>[+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "BRIGHT".<br>2) Measure DC level at TP315.<br>3) Match the DC level at TP305 with that at TP315 using S906 [– switch] and S907 [+ switch] (error: ±0.05 V).</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td rowspan="2">5</td><td>Contrast</td><td>• Apply the black & white half color bar signal.</td><td>• CH-1: TP304<br>• CH-2: TP312<br>(S-board)</td><td>• S906<br>[–] button<br>• S907<br>[+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "CONTRAST".<br>2) Align the CH-1 and CH-2 DC levels (in the GND range).<br>3) Reduce the difference between the 100% white peak level at TP304 and the DC level at TP312 within 0.3 ±0.05 V [NTSC]/0.2 ±0.05 V [PAL] using S906 [– switch] and S907 [+ switch].</td></tr>
<tr><td colspan="4">Waveforms<br>

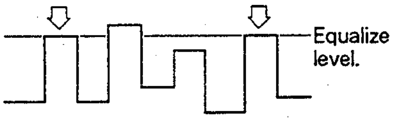
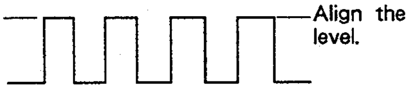
CH2 TP312<br>0.3 ± 0.05V (NTSC)<br>0.2 ± 0.05V (PAL)<br>CH1 TP304

<br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 0.5 V/div.<br>5 µs/div.</td></tr>
<tr><td rowspan="2">6</td><td>G gain</td><td>• Apply the full color bar signal (black & white).</td><td>• CH-1: TP304<br>• CH-2: TP303<br>(S-board)</td><td>• RT303<br>(S-board)</td><td rowspan="2">1) Set CH-2 "INV" and ADD mode.<br>2) Flatten the waveform.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• CH-1: 20 mV/div.<br>CH-2: 20 mV/div.<br>10 µs/div.</td></tr>
<tr><td rowspan="2">7</td><td>R gain</td><td>• Apply the full color bar signal (black & white).</td><td>• CH-1: TP304<br>• CH-2: TP302<br>(S-board)</td><td>• RT302<br>(S-board)</td><td rowspan="2">1) Set CH-2 "INV" and ADD mode.<br>2) Flatten the waveform.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• CH-1: 20 mV/div.<br>CH-2: 20 mV/div.<br>10 µs/div.</td></tr>
<tr><td rowspan="2">8</td><td>Decoder f0</td><td>• Apply no signal.</td><td>• TP301<br>(S-board)</td><td>• RT301<br>(S-board)</td><td rowspan="2">1) Short TP310 and TP311.<br>2) Connect a frequency counter to TP301.<br>3) Adjust RT301 so that the frequency counter reads<br>4,433,618 ±30 Hz [for PAL].<br>3,579,545 ±30 Hz [for NTSC].<br>4) Remove the shorting.</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td rowspan="2">9</td><td>4fsc</td><td>• Apply the full color bar signal.</td><td>• TP102<br>(S-board)</td><td>• CT701<br>• CT801<br>(Note-1)</td><td rowspan="2">1) Connect a frequency counter to TP102.<br>2) Adjust CT701 or CT801 so that the frequency counter reads<br>17,734,600 + 30/–10 Hz [for PAL].<br>14,318,300 + 30/–10 Hz [for NTSC].</td></tr>
<tr><td colspan="4">(Note-1)<br>The adjustment points are different for the VY-170 and VY-300.<br>VY-170: CT701 (M1-board)<br>VY-300: CT801 (M2-board)</td></tr>
</table>

[PAL model only]

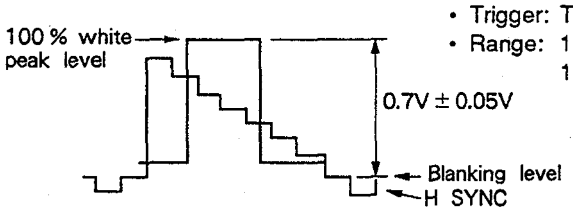
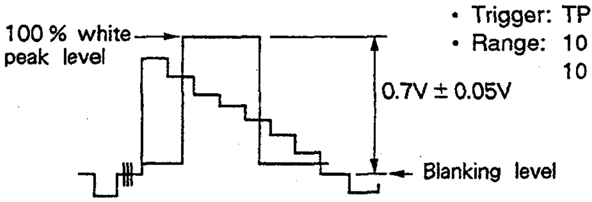
<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">10</td><td>Decoder DL Amp</td><td>• Apply the full color bar signal.</td><td>• TP302 (S-board)</td><td>• LT301<br>• RT310 (S-board)</td><td rowspan="2">1) Adjust LT301 and RT310 to flatten the peaks of the R signal.</td></tr>
<tr><td colspan="4">Waveforms<br><br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div.</td></tr>
<tr><td rowspan="2">11</td><td>Colour</td><td>• Apply the full colour bar signal.</td><td>• TP302 (S-board)</td><td>• S906 [–] button<br>• S907 [+] button<br>• RT310 (S-board)</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "COLOR".<br>2) Set the COLOR level to "+32".<br>3) Short TP317 and TP101 (GND).<br>4) Equalize level at both ends of the waveform using S906 and S907.<br>5) Equalize peak level of the waveform using RT310.<br>6) Remove the shorting.</td></tr>
<tr><td colspan="4">Waveforms<br><br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div.</td></tr>
</table>

[NTSC model only]

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">10</td><td>Color</td><td>• Apply the full color bar signal.</td><td>• TP304</td><td>• S906 [–] button<br>•S907 [+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "COLOR".<br>2) Short TP317 and TP101 (GND).<br>3) Equalize level at both ends of the waveform using S906 [– switch] and S907 [+ switch].</td></tr>
<tr><td colspan="4">Waveforms<br><br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div.</td></tr>
<tr><td rowspan="2">11</td><td>Tint</td><td>• Apply the full color bar signal.</td><td>• TP304</td><td>• S906 [–] button<br>• S907 [+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "TINT".<br>2) Short TP317 and TP101 (GND).<br>3) Adjust S906 and S907 so all the levels of the waveforms are aligned.</td></tr>
<tr><td colspan="4">Waveforms<br><br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div.</td></tr>
</table>

- **Setting mode**

1) Press S105 (MONITOR) on the S (main) board and make sure the lamp of the button is out.

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">12</td><td>Y gain (Yc-Y)</td><td>• Apply the half color bar signal (black & white).</td><td>• TP316 (S-board)</td><td>• RT307 (S-board)</td><td rowspan="2">1) Connect the oscilloscope to TP316.<br>2) Adjust the 100% white peak level at 0.7 ± 0.05 Vp-p above the blanking level.</td></tr>
<tr><td colspan="4">Waveforms<br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 10 mV/div. 10 µs/div.<br> </td></tr>
<tr><td rowspan="2">13</td><td>Y gain (video output)</td><td>• Apply the half color bar signal (black & white).</td><td>• Video output terminal (terminated with 75Ω)</td><td>• RT308 (S-board)</td><td rowspan="2">1) Connect the oscilloscope to the video output terminal.<br>2) Adjust the 100% white peak level at 0.7 ± 0.05 Vp-p above the blanking level.<br>✻ Turn RT308 fully counterclockwise, then turn it clockwise for adjustment.</td></tr>
<tr><td colspan="4">Waveforms<br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 10 mV/div. 10 µs/div.<br> </td></tr>
</table>

[PAL model only]

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">14</td><td>SSG voltage</td><td>• Apply the half color bar signal (black & white)</td><td>• TP103 (S-board)</td><td>• CT1001 (SSG-board)</td><td rowspan="2">1) Connect the oscilloscope to TP103.<br>2) Set the DC level at TP103 to 4 ±0.2 V.</td></tr>
<tr><td colspan="4"></td></tr>
</table>

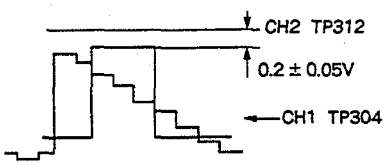
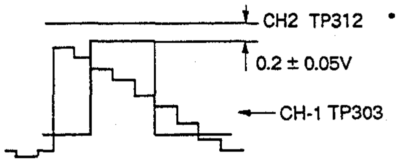
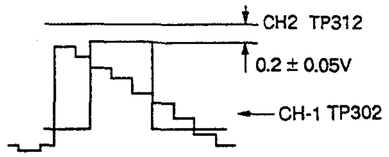
- **Setting input mode**

1) Press S908 (INPUT switch) on the F (front) board and select "RGB".

## 1. Using a color bar generator

Apply a half color signal to the "SYNC IN" terminal on the rear panel. Branch the input signal and change the connection terminals for each adjustment.

- B input gain adjustment: Apply the half color bar signal to the B-IN terminal (rear panel).
- G input gain adjustment: Apply the half color bar signal to the G-IN terminal (rear panel).
- R input gain adjustment: Apply the half color bar signal to the R-IN terminal (rear panel).

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 15 | B input gain | • Apply the half color bar signal. | • CH-1: TP304<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "B GAIN".<br>2) Reduce the difference between the peak level at TP304 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
|  | Waveforms<br> | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |  |
| 16 | G input gain | • Apply the half color bar signal. | • CH-1: TP303<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S906 [+] button | 1) Press S905 (SUB MENU switch) and select "G GAIN."<br>2) Reduce the difference between the peak level at TP303 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
|  | Waveforms<br> | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |  |
| 17 | R input gain | • Apply the half color bar signal. | • CH-1: TP302<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "R GAIN."<br>2) Reduce the difference between the peak level at TP302 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].<br>3) Press S902 (DISPLAY switch).<br>4) Remove the shorting across TP105 and TP106. |
|  | Waveforms<br> | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |  |

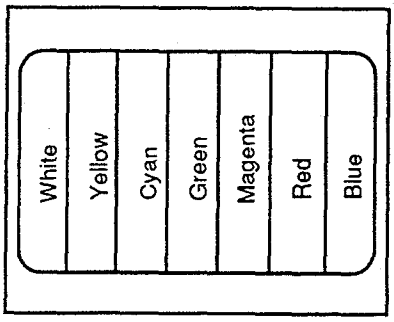
## 2. Using an RGB color bar generator

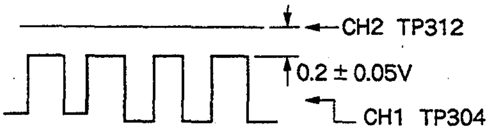
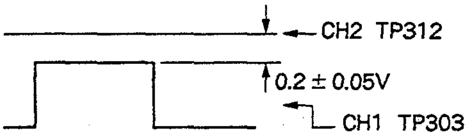
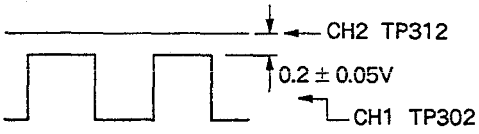
- ***Connections***

  Connect the color bar generator to the rear-panel terminal. Its RGB output level should be 0.7 Vp-p/75Ω and C.SYNC level 0.3 V to TTL level/75Ω.

  Note: Some color bar generators have the output level of 0.5 Vp-p.

- **Reference input signal**



| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 18 | B input gain | • Apply the RGB signal. | • CH-1: TP304<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "B GAIN."<br>2) Reduce the difference between the peak level at TP304 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
| | Waveforms<br><Oscilloscope setting><br>• Apply trigger to TP308.<br> | | | | |
| 19 | G input gain | • Apply the RGB signal. | • CH-1: TP303<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S906 [+] button | 1) Press S905 (SUB MENU switch) and select "G GAIN."<br>2) Reduce the difference between the peak level at TP303 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
| | Waveforms<br><Oscilloscope setting><br>• Apply trigger to TP308.<br> | | | | |
| 20 | R input gain | • Apply the RGB signal. | • CH-1: TP302<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "R GAIN."<br>2) Reduce the difference between the peak level at TP302 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].<br>3) Press S902 (DISPLAY switch).<br>4) Remove the shorting across TP105 and TP106. |
| | Waveforms<br><Oscilloscope setting><br>• Apply trigger to TP308.<br> | | | | |

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 21 | Head voltage | • Apply no signal. | • CP51-1<br>• CP51-6 (SWR-board) | • R55 (REG board) | 1) Connect a DC voltmeter to pins 1 and 6 of CP51 on the SWR board.<br>2) Read the resistance value given on the thermal head. The table given at left indicates the voltage value corresponding to the resistance read.<br>3) Adjust R55 so that the reading of the DC voltmeter is equal to the value given from the table.<br>Note:<br>(1) After this adjustment, print the color bars. If colors are too thick or tails are produced, lower the voltage by about 0.3 V. If colors are thin, raise the voltage by about 0.3 V.<br>(2) To print with the front panel removed, hold the ink cartridge door SW and ink cartridge firmly by hand. |

[For PAL]

| Head resistance (Ω) | Voltage (V) |
|---|---|
| 1804~1815 | 17.3 |
| 1816~1835 | 17.4 |
| 1836~1855 | 17.5 |
| 1856~1876 | 17.6 |
| 1877~1896 | 17.7 |
| 1897~1917 | 17.8 |
| 1918~1938 | 17.9 |
| 1939~1959 | 18.0 |
| 1960~1980 | 18.1 |
| 1981~2001 | 18.2 |
| 2002~2022 | 18.3 |
| 2023~2043 | 18.4 |
| 2044~2065 | 18.5 |
| 2066~2086 | 18.6 |
| 2087~2108 | 18.7 |
| 2109~2130 | 18.8 |
| 2131~2151 | 18.9 |
| 2152~2173 | 19.0 |
| 2174~2196 | 19.1 |
| 2197~2218 | 19.2 |
| 2219~2240 | 19.3 |
| 2241~2262 | 19.4 |
| 2263~2285 | 19.5 |
| 2286~2296 | 19.6 |

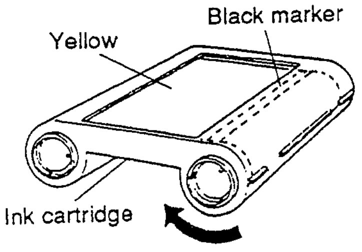
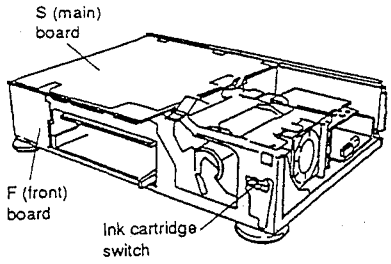
[For NTSC]

| Head resistance (Ω) | Voltage (V) |
|---|---|
| 1760~1764 | 19.0 |
| 1765~1782 | 19.0 |
| 1783~1801 | 19.0 |
| 1802~1819 | 19.0 |
| 1820~1838 | 19.1 |
| 1839~1856 | 19.2 |
| 1857~1875 | 19.3 |
| 1876~1894 | 19.4 |
| 1895~1912 | 19.5 |
| 1913~1931 | 19.6 |
| 1932~1950 | 19.7 |
| 1951~1970 | 19.8 |
| 1971~1989 | 19.9 |
| 1990~2008 | 20.0 |
| 2009~2028 | 20.1 |
| 2029~2047 | 20.2 |
| 2048~2067 | 20.3 |
| 2068~2086 | 20.4 |
| 2087~2106 | 20.5 |
| 2107~2126 | 20.6 |
| 2127~2146 | 20.7 |
| 2147~2166 | 20.8 |
| 2167~2186 | 20.9 |
| 2187~2207 | 21.0 |
| 2208~2227 | 21.1 |
| 2228~2240 | 21.2 |

**Mechanism Sensor Circuit Board Adjustment**

o Fault due to incomplete adjustment

The paper is discharged without being printed, the ink is normal while the INK LED is flashing, but the roll of ink paper is fed without printing.

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 22 | Ink Sensor Level Adjustment | • No input signal. | • PG1-7 (Mecha. Sensor Board) | • RT2001 (Mech. Sensor Board) | 1) Take up the roll of ink paper in the cartridge until the black marker cannot be seen. (Fig. 1)<br>2) Set the printer to the servicing position. (See page 4-1)<br>3) Place a sheet of paper, etc. on the thermal head to shut off the light.<br>4) Insert the ink cartridge into the printer, and while holding the cartridge and ink cartridge door switch, turn the power on. (Fig. 2)<br>5) Press the PRINT switch after the READY indicator lights to initialize the ink paper. (Perform adjustment while the ink paper is initialized.)<br>6) Connect a DC voltmeter to PG1 pin 7 and adjust it so the voltage is 3.8-3.9V when the yellow and magenta ink sections are being fed. Then check that the voltage is 1.5V or less when the cyan ink section is being fed (when this can be confirmed, adjustment is completed).<br>If the above cannot be confirmed, adjust the voltage when the cyan section is being fed is 1.4-1.5V. (RT2001)<br>7) After the voltage has been adjusted at the cyan ink section, perform the check in step 6) again. |
| | – Ink initializing state –<br>The state in which only the roll of ink paper is fed while the head is lowered slightly to locate the start of the ink paper.<br> <br>Fig. 1<br> <br>Fig. 2 | | | | |

### Accumulated Print Counter Display

1) Connect a monitor TV and turn the power on.
2) Press the SELECT switch (S104) and hold it, then press the DISPLAY switch (S902) so the OSD menu appears on the TV screen.

OSD menu

```
                      XXXXX   <- Displays the accumulated counter value.
PRINT  MODE            NORM
                    V.GAMMA


PRINT COUNT
```

3) Press the DISPLAY switch (S902) again to switch off the display.

### Back-up ROM

- The following data is stored in the EEPROM (IC103 BR9021 on the S (main) board) for back-up.
  - ① Accumulated print counter
  - ② Adjustment data (INIT ADJ)
  - ③ User setting status
- Initializing the back-up ROM
  There are two ways to initialize the back-up ROM (IC103).
  (1) ROM INIT ... Initializes all the data in ① - ③ above (the data is erased).

  > Caution: Do not use this initialization for re-adjustment.

  (2) CNT CTR ... Clears only the data in ① above.

  > Caution: Perform this initialization when the thermal head is replaced.

- Back-up ROM initialization procedure

1) Connect a monitor TV and turn the power on.
2) Press the DISPLAY switch (S902) to switch off the OSD.
3) Short TP1105 and TP1106 on the S (main) circuit board.
4) Press the MENU switch (S904).

OSD

```
INIT MENU
 → ROM INIT ..................Clears all data.
   INIT ADJ ..................Clears the adjustment data
   CNT CLR ...................Clears the accumulated
                              counter value.
   DEMO           DI .........Note: Check DI is displayed.
```

※ To clear all data, press the MENU switch (S904) to align the arrow with ROM INIT.

※ To clear only the counter value, press the MENU switch (S904) to align the arrow with CNT CLR.

5) Press the SUB MENU switch (S905).
6) Press the MONITOR switch (S105) and DISPLAY switch (S902) simultaneously to clear the data.
7) When the INIT MENU is restored, press the DISPLAY switch (S902) and remove the short-circuit between TP1105 and TP1106.

- When DEMO DI is not displayed:

1) Display the INIT MENU and align the arrow with DEMO, then press the SUB MENU switch (S905).
2) Press the [+] switch (S907) to display DEMO DI.
3) Press the DISPLAY switch (S902).

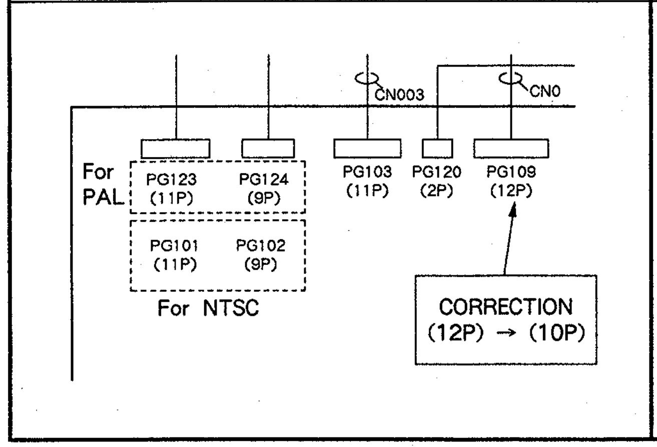
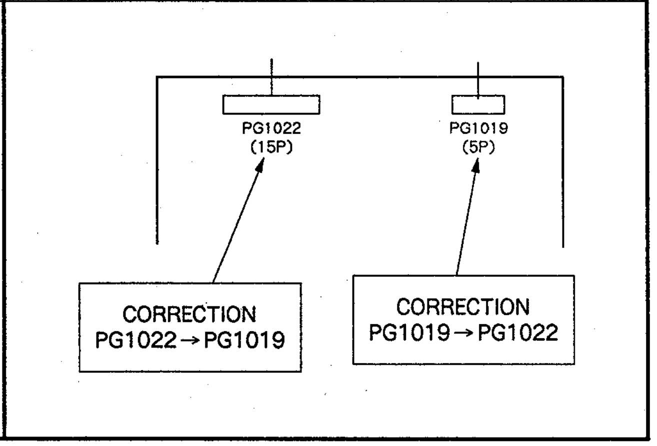
# ERROR CODE TABLE

| Code | Fault | Conditions of error detection | State | Recovering method |
|---|---|---|---|---|
| 1 | Mode motor lock | 1)The required mode is not entered within 2 seconds after the mode motor is driven.<br>2)Mode 1 or 7 is entered before the mechanism enters the required mode. | ·Mode switch over-run<br>·Mode motor lock | 1) Open and close the print cartridge door. |
| 2 | Drum motor lock | No FG pulse is input for 150ms while the drum motor is driven. | ·FG input<br>·FG circuit faulty<br>·Drum motor lock (mechanism lock) | Same as in error 1 |
| 3 | Front paper discharge error | When the paper is fed by 1200 lines after it enters the paper discharge tray (paper sensor 2 changes to “Hi” from “Lo”), paper is not discharged (paper sensor 2 does not charge from “Hi” to “Lo”). | ·Paper sensor 2 : Hi<br>·Stroke of paper discharge arm faulty<br>·Paper sensor 2 faulty<br>·Paper jam (in paper discharge tray) | Remove the paper from the paper discharge tray.<br>Perform the same as in error 1. |
| 4 | Check position error | 1)When the drum is turned by one turn, the print start position (position sensor 3 charges to “Lo” from “Hi”) is not detected.<br>2)After the charge from “Hi” to “Lo” is detected, “Hi” is detected again, the drum is stopped and rotated slightly in reverse, Position sensor 3 does not charge to “Lo” from “Hi” at this time. | ·Position sensor 3 : Hi | Same as in error 1 |
| 5 | Print start position error | After position sensor 3 changes to “Lo” from “Hi”, the head is lowered. The drum moves at this time and position sensor 3 changes to “Hi” from “Lo”. | ·Position sensor 3 : Hi | Same as in error 1 |
| 8 | Paper supply error | Paper is not located under the head at the start of printing. | ·The paper is released from the chuck.<br>·Position sensor 1 detects “Lo” when position sensor 3 is “Lo”. | Same as in error 1 |
| 9 | Preheating error | The temperature does not charge within 100 seconds after preheating starts. | ·Thermistor circuit faulty<br>·Strobe circuit faulty | Check the circuits. |
| 10 | Ink jam | The take-up reel stops or rotates in reverse. (Ink jam is detected by the take-up reel sensor) | ·Abnormal printing<br>·Ink paper has slipped too much<br>·Ink jam | 1) Remove and re-insert the print cartridge.<br>2) Check to make sure there is no slack in the print cartridge ink paper. |
| 13 | Double feed (mistake in chucking) | Paper is present at the paper supply port when printing starts. | ·The position sensor 1 and paper marker sensor detect “Hi” when position sensor 3 is “Lo”. | ·Pull out the print cartridge and close the cassette door. Perform the paper discharge operation. The INK LED flashes. Insert the print cartridge. |
| 14 | Lateral paper discharge error | 1)When the paper discharge operation is started and the drum is turned by one revolution, the end of paper does not reach paper sensor 2 (paper sensor 2 does not charge to “Hi” from “Lo”). (Paper is not discharged laterally even when the lateral paper discharge mode (mode 7) is entered.)<br>2)When the discharge operation is started and the drum is turned by one revolution, position sensor 1 detects paper (sensor output: Hi).<br>3)The mode motor or platen drum motor is locked while the discharge operation is started and the drum is turned by one revolution. | ·Paper Jam (on drum) | Remove the paper sticking to the drum. Then unplug the power cord from the AC outlet and plug it again. |
| 15 | I/F error | If the signals at the following pins of system control up IC806 continue to be “Lo” simultaneously for more than 300 ms.<br>IFROK (pin 22)<br>IFREQ (pin 32) | Defect in connention of the following signals between I/F up IC805 and system control up IC806.<br>IFROK, IFREQ, IFDATA, IFSCK, S.DATA | Check the circuits<br>Same as in error 1 |
| 16 | Error in color conversion | If printing of magenta is possible during color conversion printing, but color conversion is still performed even after 10 seconds have elapsed. | Defect in connection of the following signals between I/F up IC805 and system control up IC806.<br>IFDATA, IFSCK, S.DATA | Check the circuits<br>Same as in error 1 |

## CORRECTION OF SCHEMATIC DIAGRAMS

### 1. INTERNAL WIRING DIAGRAM

(schematic on page 5-1 in the Service Manual.)

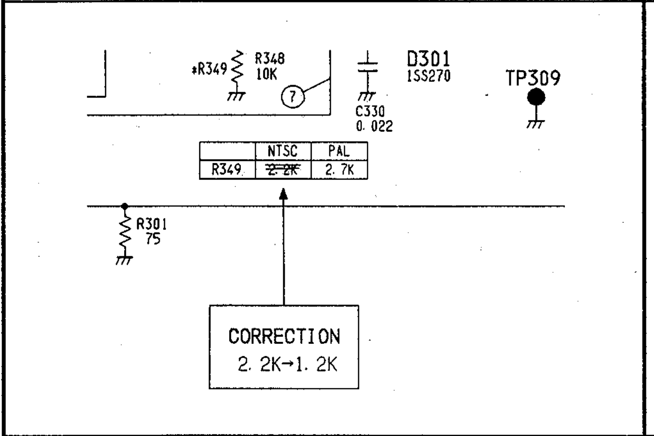
| Section of Correction | Section of Correction |
|---|---|
| 1) Page 5-1 (D-1,2) | 2) Page 5-1 (B-1,2) |
|  |  |

CN003
CNO
For PAL
PG123 (11P)
PG124 (9P)
PG101 (11P)
PG102 (9P)
For NTSC
PG103 (11P)
PG120 (2P)
PG109 (12P)
CORRECTION
(12P) → (10P)

PG1022 (15P)
PG1019 (5P)
CORRECTION
PG1022→PG1019
CORRECTION
PG1019→PG1022

### 2. MAIN(ANALOG-2 SECTION) Shematic Diagram

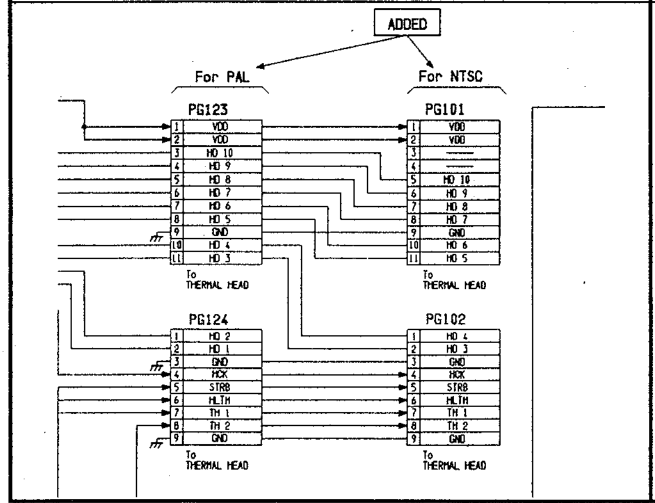
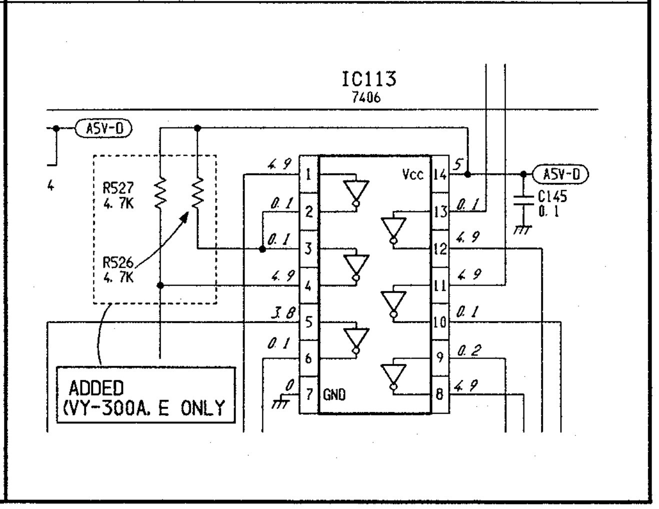
(schematic on pages 5-7 to 5-8 in the Service Manual.)

| Section of Correction | Section of Correction |
|---|---|
| 3) Page 5-8 (D-4) | |
|  | |

*R349
R348 10K
7
D301 1SS270
C330 0.022
TP309
R349 NTSC ~~2.2K~~ PAL 2.7K
R301 75
CORRECTION
2.2K→1.2K

### 3. MAIN(DIGITAL-1 SECTION) Shematic Diagram

(schematic on pages 5-9 to 5-10 in the Service Manual.)

| Section of Correction | Section of Correction |
|---|---|
| 4) Page 5-9 (F-5) | 5) Page 5-10 (D-8) |
|  |  |

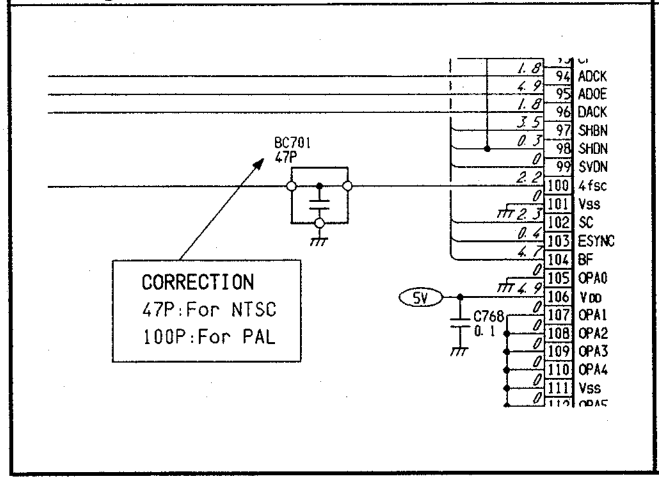
ADDED
For PAL
For NTSC
PG123
PG101
VDD
HD 10
HD 9
HD 8
HD 7
HD 6
HD 5
GND
HD 4
HD 3
To THERMAL HEAD
PG124
PG102
HD 2
HD 1
GND
HCK
STRB
HLTH
TH 1
TH 2
GND
To THERMAL HEAD

IC113
7406
A5V-D
R527 4.7K
R526 4.7K
Vcc
GND
C145 0.1
ADDED
(VY-300A.E ONLY)

---

### 4. MAIN(MEMORY-1 SECTION) Shematic Diagram

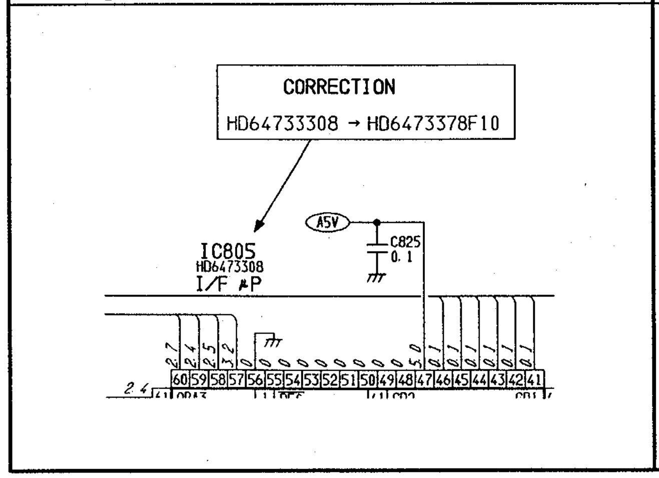
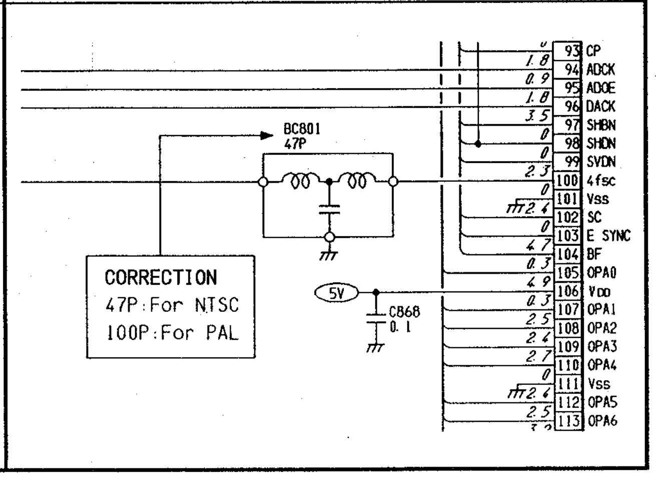
(schematic on pages 5-13 to 5-14 in the Service Manual.)

| Section of Correction | Section of Correction |
|---|---|
| 6) Page 5-14 (B-6) | |
|  | |

BC701 47P
CORRECTION
47P:For NTSC
100P:For PAL
5V
C768 0.1
ADCK
ADOE
DACK
SHBN
SHDN
SVDN
4fsc
Vss
SC
ESYNC
BF
OPA0
VDD
OPA1
OPA2
OPA3
OPA4
Vss

### 5. MAIN(MEMORY-2 SECTION) Shematic Diagram

(schematic on pages 5-15 to 5-16 in the Service Manual.)

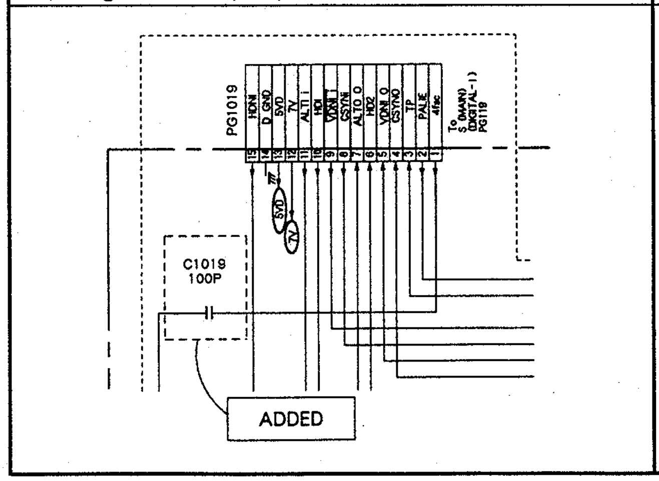
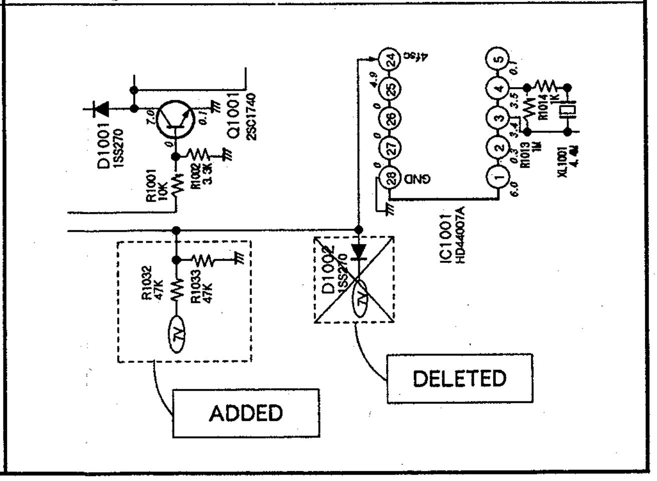
| Section of Correction | Section of Correction |
|---|---|
| 7) Page 5-15 (D-2) | 8) Page 5-16 (B-7) |
|  |  |

CORRECTION
HD64733308 → HD6473378F10
IC805
HD6473308
I/F μP
A5V
C825 0.1

BC801 47P
CORRECTION
47P:For NTSC
100P:For PAL
5V
C868 0.1
CP
ADCK
ADOE
DACK
SHBN
SHDN
SVDN
4fsc
Vss
SC
E SYNC
BF
OPA0
VDD
OPA1
OPA2
OPA3
OPA4
Vss
OPA5
OPA6

### 6. SSG Shematic Diagram

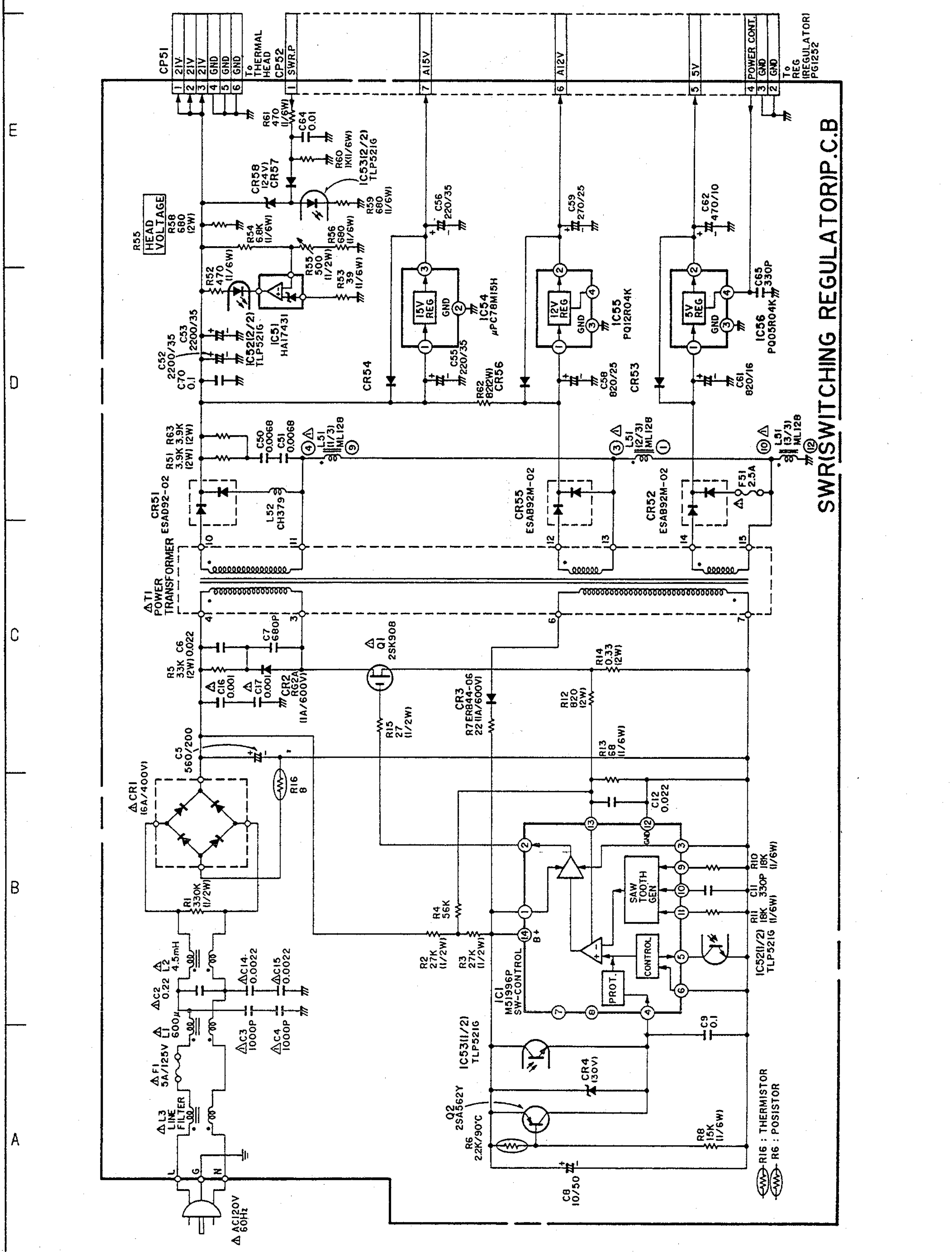
(schematic on page 5-19 in the Service Manual.)

| Section of Correction | Section of Correction |
|---|---|
| 9) Page 5-19 (D-1) | 10) Page 5-19 (B-2) |
|  |  |

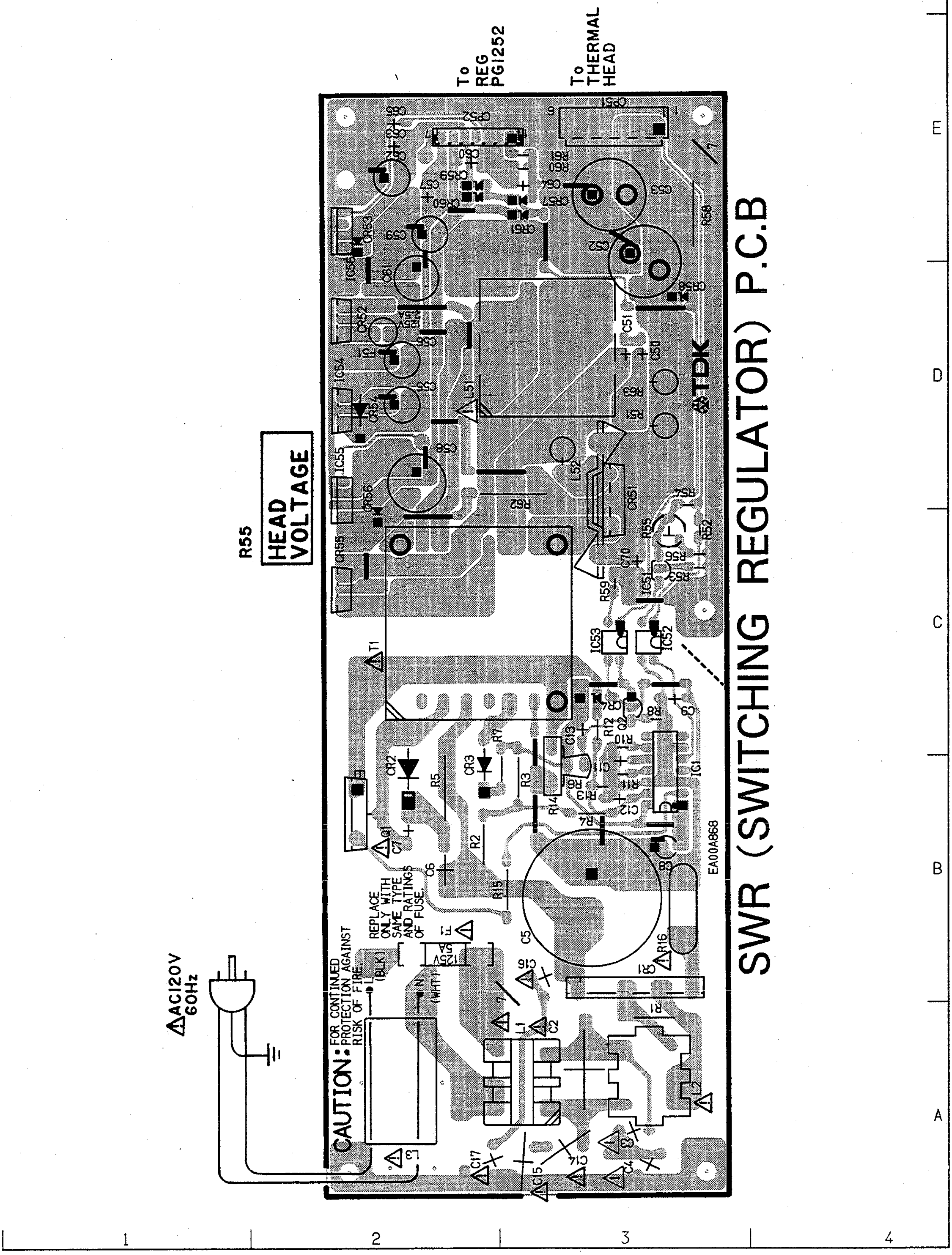
PG1019
C1019 100P
ADDED

D1001 1SS270
Q1001 2SC1740
R1001 10K
R1002 3.3K
R1032 47K
R1033 47K
D1002 1SS270
IC1001 HD4007A
XL1001
R1004
R1003
GND
ADDED
DELETED

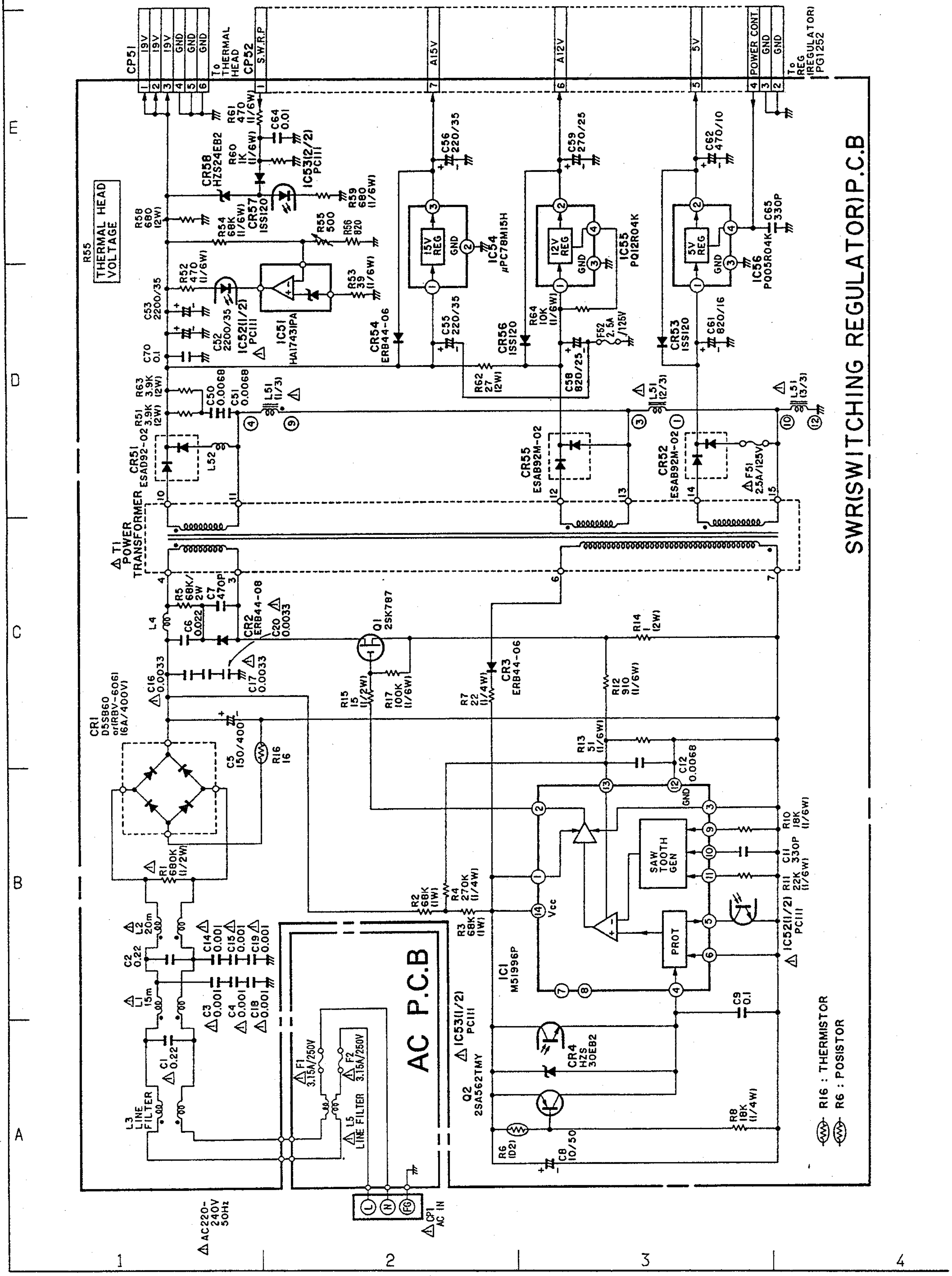
# SWR (SWITCHING REGULATOR) SCHEMATIC DIAGRAM (For NTSC)


SWR(SWITCHING REGULATOR)P.C.B
CP51
21V
21V
21V
GND
GND
GND
To THERMAL HEAD
CP52
SWR.P
A15V
A12V
5V
POWER CONT.
GND
GND
To REG (REGULATOR) PG1252
R61 470 (1/6W)
C64 0.01
R60 1K(1/6W)
CR58 (24V)
CR57
IC53(2/2) TLP521G
R59 680 (1/6W)
R58 680 (2W)
R55 HEAD VOLTAGE
R54 6.8K (1/6W)
R56 680 (1/6W)
R55 500 (1/2W)
R53 39 (1/6W)
R52 470 (1/6W)
IC51 HA17431
IC52(2/2) TLP521G
C52 2200/35
C53 2200/35
C70 0.1
C56 220/35
15V REG
GND
IC54 μPC78M15H
C55 220/35
CR54
R62 82(2W)
CR56
C59 270/25
12V REG
IC55 PQ12R04K
C58 820/25
CR53
C62 470/10
C65 330P
5V REG
IC56 PQ05R04K
C61 820/16
R51 3.9K (2W)
R63 3.9K (2W)
C50 0.0068
C51 0.0068
L51 (1/3) ML128
L51 (2/3) ML128
L51 (3/3) ML128
F51 2.5A
CR51 ESAD92-02
L52 CH379
CR55 ESAB92M-02
CR52 ESAB92M-02
T1 POWER TRANSFORMER
R5 33K (2W)
C6 0.022
C7 680P
C16 0.001
C17 0.001
CR2 RG2A (1A/600V)
Q1 2SK908
R14 0.33 (2W)
CR3 R7ER844-06
22(1A/600V)
R15 27 (1/2W)
R12 820 (2W)
R13 68 (1/6W)
C5 560/200
CR1 (6A/400V)
R16 8
C12 0.022
R1 330K (1/2W)
R4 56K
R2 27K (1/2W)
R3 27K (1/2W)
B+
IC1 M51996P SW-CONTROL
SAW TOOTH GEN
CONTROL
PROT.
R10 18K (1/6W)
C11 330P
R11 18K (1/6W)
IC52(1/2) TLP521G
C9 0.1
L2 4.5mH
C2 0.22
C14 0.0022
C15 0.0022
L1 600μ
C3 1000P
C4 1000P
F1 5A/125V
L3 LINE FILTER
IC53(1/2) TLP521G
CR4 (30V)
Q2 2SA562Y
R6 2.2K/90°C
R8 15K (1/6W)
C8 10/50
L
G
N
AC120V 60Hz
R16 : THERMISTOR
R6 : POSISTOR
E
D
C
B
A
1
2
3
4

# SWR (SWITCHING REGULATOR) CIRCUIT BOARD DIAGRAM (For NTSC)

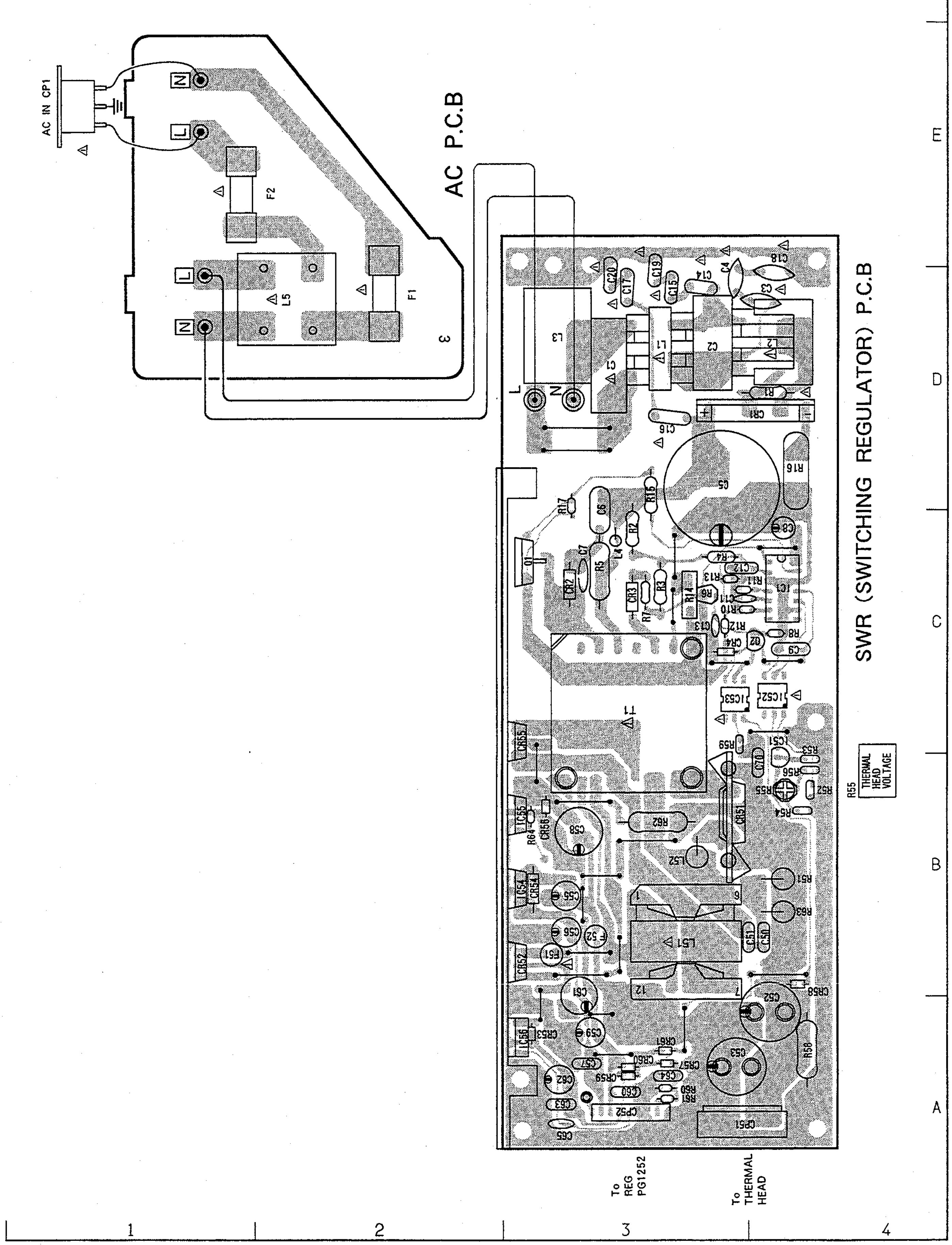

To REG PG1252
To THERMAL HEAD
R55
HEAD VOLTAGE
AC120V 60Hz
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSE.
L (BLK)
N (WHT)
F1 125V 5A
SWR (SWITCHING REGULATOR) P.C.B
TDK
EA00A868
CP51
CP52
T1
IC1
IC51
IC52
IC53
C5
C53
C52
E
D
C
B
A
1
2
3
4

# SWR (SWITCHING REGULATOR) SCHEMATIC DIAGRAM (For PAL)



CP51
19V
19V
19V
GND
GND
GND
To THERMAL HEAD
CP52
S.W.R.P
A15V
A12V
5V
POWER CONT.
GND
GND
To REG (REGULATOR) PG1252
SWR(SWITCHING REGULATOR)P.C.B
R55 THERMAL HEAD VOLTAGE
R61 470 (1/6W)
C64 0.01
CR58 HZS24EB2
R60 1K (1/6W)
IC53(2/2) PC111
CR57 1SS120
R59 680 (1/6W)
R58 680 (2W)
R54 68K (1/6W)
R55 500
R56 820
R52 470 (1/6W)
R53 39 (1/6W)
C53 2200/35
C52 2200/35
IC52(1/2) PC111
IC51 HA17431PA
C70 0.1
C56 220/35
15V REG
GND
IC54 μPC78M15H
CR54 ERB44-06
C55 220/35
C59 270/25
12V REG
IC55 PQ12R04K
CR56 1SS120
R64 10K (1/6W)
C58 820/25
F52 2.5A /125V
R62 27 (2W)
C62 470/10
5V REG
C65 330P
IC56 PQ05R04K
CR53 1SS120
C61 820/16
R63 3.9K (2W)
R51 3.9K (2W)
C50 0.0068
C51 0.0068
L51 (1/3)
L51 (2/3)
L51 (3/3)
CR51 ESAD92-02
L52
CR55 ESAB92M-02
CR52 ESAB92M-02
F51 2.5A/125V
T1 POWER TRANSFORMER
R5 68K/ 2W
C7 470P
L4
C6 0.022
CR2 ERB44-08
C20 0.0033
Q1 2SK787
R14 1 (2W)
C16 0.0033
C17 0.0033
R15 15 (1/2W)
R17 100K (1/6W)
R7 22 (1/4W)
CR3 ERB44-06
R12 910 (1/6W)
CR1 D5SB60 or(RBV-606) (6A/400V)
C5 150/400
R16 16
R13 51 (1/6W)
C12 0.0068
R1 680K (1/2W)
SAW TOOTH GEN
R10 18K (1/6W)
C11 330P
R11 22K (1/6W)
Vcc
PROT
IC52(1/2) PC111
R2 68K (1W)
R4 270K (1/4W)
R3 68K (1W)
IC1 M51996P
L2 20m
C2 0.22
C14 0.001
C15 0.001
C19 0.001
L1 15m
C3 0.001
C4 0.001
C18 0.001
C9 0.1
C1 0.22
L3 LINE FILTER
AC P.C.B
F1 3.15A/250V
F2 3.15A/250V
L5 LINE FILTER
IC53(1/2) PC111
CR4 HZS 30EB2
Q2 2SA562TMY
R6 (D2)
C8 10/50
R8 18K (1/4W)
R16 : THERMISTOR
R6 : POSISTOR
AC220-240V 50Hz
CP1 AC IN
L
N
FG
GND
E
D
C
B
A
1
2
3
4

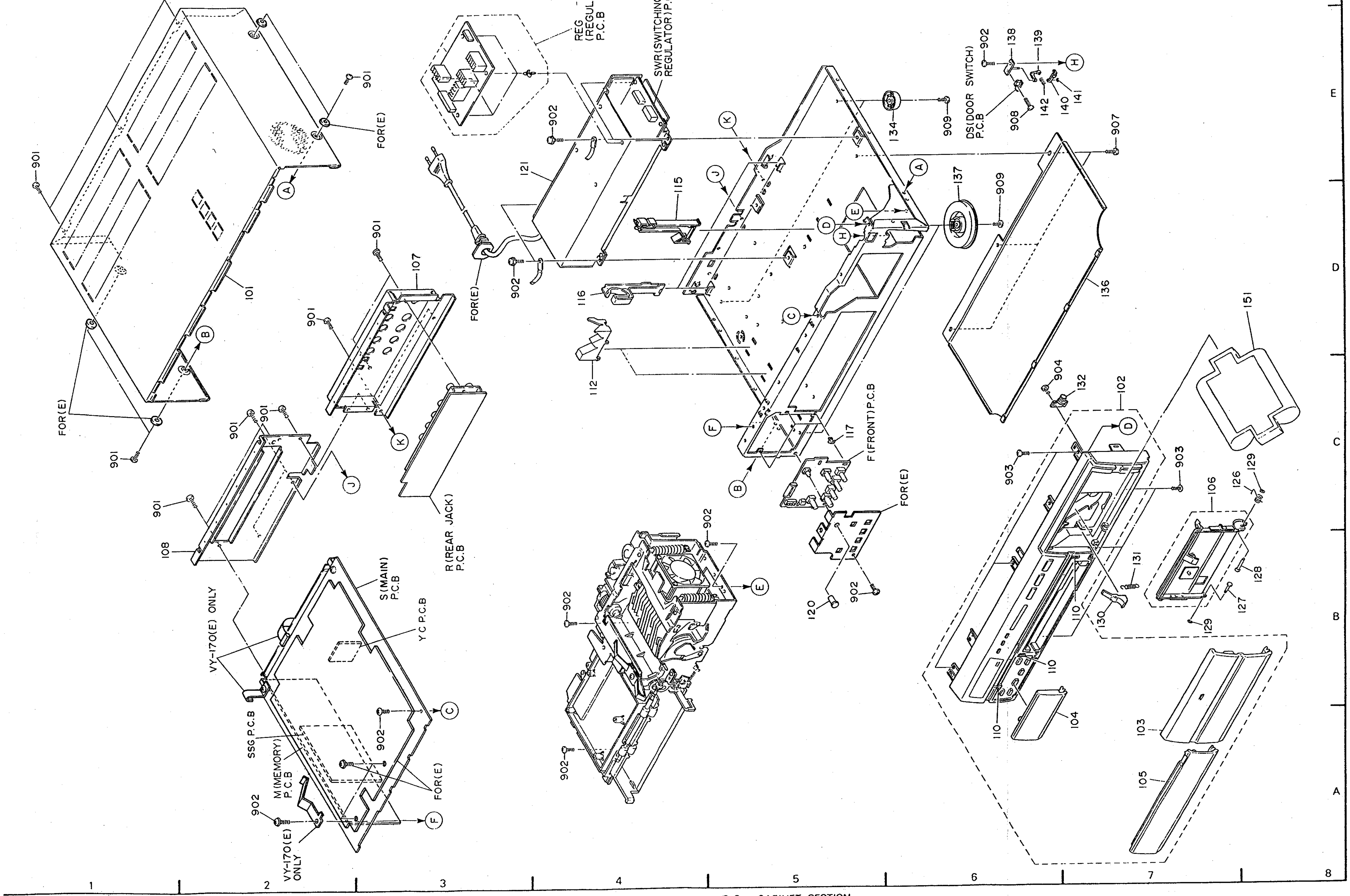
# SWR (SWITCHING REGULATOR) CIRCUIT BOARD DIAGRAM (For PAL)


AC IN CP1
N
L
F2
F1
L5
AC P.C.B
SWR (SWITCHING REGULATOR) P.C.B
L
N
L3
L1
C1
C2
L2
CR1
R1
C16
C5
R16
C18
C3
C4
C14
C15
C17
C19
C20
R17
C6
R15
R2
L4
C7
R5
Q1
CR2
CR3
R7
R3
R14
R6
R13
C11
R10
C12
R4
R11
IC1
C8
C13
R12
CR4
Q2
R8
C9
T1
IC53
IC52
IC51
R59
R53
C70
R56
R55
R52
R54
THERMAL HEAD VOLTAGE
CR51
CR55
IC55
R64
CR56
C58
R62
L52
R51
R63
IC54
CR54
C55
C56
F52
L51
C51
C50
F51
CR52
C61
C52
CR58
IC56
CR53
C59
CR61
C53
R58
C57
CR60
CR57
C62
CR59
C64
C60
R60
R61
C63
CP52
CP51
C65
To REG PG1252
To THERMAL HEAD
E
D
C
B
A
1
2
3
4

# CHAPTER 6

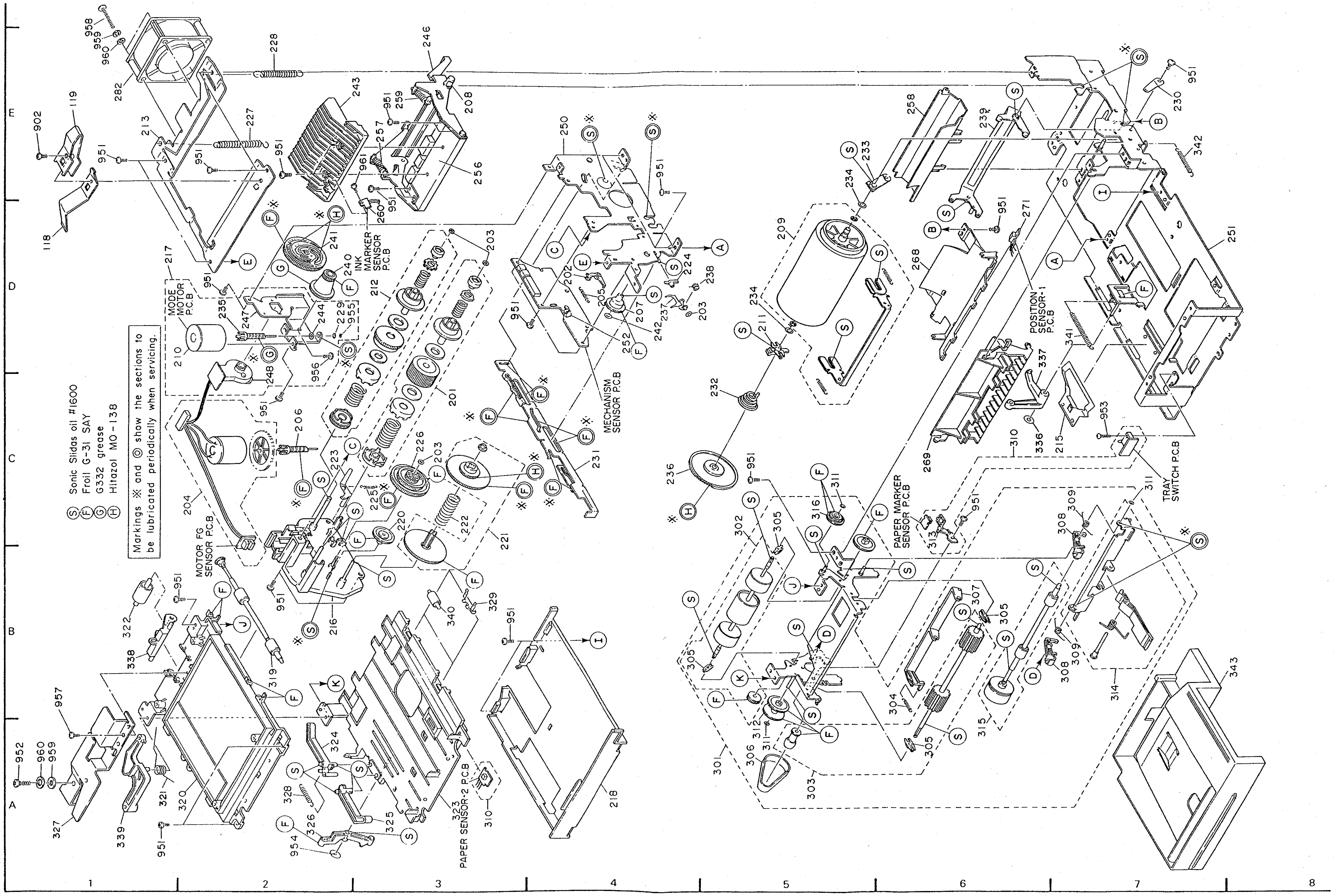
## EXPLODED VIEWS

### 1. CABINET SECTION



REG (REGULATOR) P.C.B
SWR(SWITCHING REGULATOR)P.C.B
DS(DOOR SWITCH) P.C.B
901
FOR(E)
101
A
B
C
D
E
F
H
J
K
902
121
115
116
112
134
909
137
136
907
138
139
140
141
142
908
F(FRONT)P.C.B
117
107
108
R(REAR JACK) P.C.B
S(MAIN) P.C.B
Y C P.C.B
VY-170(E) ONLY
SSG P.C.B
M(MEMORY) P.C.B
120
102
132
904
903
151
106
126
129
128
127
131
130
110
104
103
105
1
2
3
4
5
6
7
8

## 2. PRINT MECHANISM SECTION



Ⓢ Sonic Slidas oil #1600
Ⓕ Froil G-31 SAY
Ⓖ G332 grease
Ⓗ Hitazol MO-138

Markings ※ and ◎ show the sections to be lubricated periodically when servicing.

E
D
C
B
A
1
2
3
4
5
6
7
8
MODE MOTOR P.C.B
INK MARKER SENSOR P.C.B
MOTOR FG SENSOR P.C.B
MECHANISM SENSOR P.C.B
POSITION SENSOR-1 P.C.B
PAPER MARKER SENSOR P.C.B
TRAY SWITCH P.C.B
PAPER SENSOR-2 P.C.B
118
119
902
951
213
227
282
958
959
960
228
217
210
235
247
244
229
955
956
248
204
206
223
212
201
226
203
225
220
222
221
216
243
241
240
246
259
208
257
256
961
260
250
202
205
207
242
252
237
238
224
231
251
230
342
258
239
233
234
209
268
271
211
232
236
341
337
336
215
953
269
310
311
316
302
305
313
309
308
307
304
312
306
301
303
315
314
343
322
338
319
957
952
327
339
321
320
324
328
326
954
325
323
340
329
218

# REPLACEMENT PARTS LIST

## 1. ELECTRICAL PARTS LIST 〔VY-170 (E)〕

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **CAPACITORS** |
| C1001 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1002 | 0890069 | CERAMIC DISC 47PF+−5% 50V |
| C1004 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C1005 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1007 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1008 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1009 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C101 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1011 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1012 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C102 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C103 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C105 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C107 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1110 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1114 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1115 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1116 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1118 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1119 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1120 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1121 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1127 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1128 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1130 | 0249647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1131 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1132 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1133 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1138 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1139 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C114 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C115 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1205 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1207 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1208 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| ⚠C121 | 0880015 | POLYESTER FILM 0.068UF+−10% 50V |
| C1213 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1215 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1216 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C122 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C127 | 0880013 | POLYESTER FILM 0.033UF+−10% 50V |
| C1301 | 0890074 | CERAMIC DISC 100PF+−5% 50V |
| C1302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C131 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C132 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C134 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C136 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C137 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C138 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C139 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C305 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C306 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C307 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C308 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C309 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C310 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C311 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C312 | 0209641 | CERAMIC DISC 10000PF+−10% 16V |
| C314 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C319 | 0890092 | CERAMIC DISC 2200PF+−10% 50V |
| C320 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C321 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C324 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C328 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C330 | 0890102 | CERAMIC DISC 0.022UF+80−20% 50V |
| C332 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C333 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C334 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C336 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C337 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C338 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C339 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C343 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C344 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C345 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C346 | 0207163 | TANTALUM 1.0UF+−10% 35V |
| C347 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C348 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C349 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C350 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C351 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C352 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C353 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C354 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C361 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C362 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C363 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C364 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C367 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C368 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C369 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C372 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C373 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C376 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C377 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C378 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C380 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C381 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C383 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C386 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C390 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C391 | 0880016 | POLYESTER FILM 0.1UF+−10% 50V |
| C393 | 0204274 | POLYESTER FILM 4700PF+−5% 100V |
| C394 | 0880005 | POLYESTER FILM 2200PF+−10% 50V |
| C396 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C398 | 0880011 | POLYESTER FILM 0.015UF+−10% 50V |
| C400 | 0880014 | POLYESTER FILM 0.047UF+−10% 50V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C401 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C402 | 0880006 | POLYESTER FILM 3300PF+−10% 50V |
| C403 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C404 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C405 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C406 | 0204277 | POLYESTER FILM 1500PF+−5% 100V |
| C407 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C408 | 0204272 | POLYESTER FILM 3300PF+−5% 100V |
| C411 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C416 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C417 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C418 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C419 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C420 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C421 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C422 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C423 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C424 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C425 | 0890075 | CERAMIC DISC 120PF+−5% 50V |
| C431 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C444 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C445 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C446 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C447 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C448 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C449 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C450 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C451 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C452 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C453 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C701 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C702 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C703 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C704 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C706 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C708 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C709 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C711 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C712 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C713 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C714 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C715 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C716 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C718 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C719 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C720 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C721 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C722 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C724 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C725 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C730 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C732 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C733 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C734 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C735 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C736 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C737 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C738 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C739 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C760 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C761 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C762 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C763 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C764 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C765 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C767 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C768 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C769 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C770 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C771 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C778 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C779 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C780 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C781 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C782 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C783 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C784 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C785 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C786 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C787 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| | | **RESISTORS** |
| RD001 | 0170341 | CARBON FILM 120OHM+−5%,1/8W |
| RD002 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD003 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD004 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD005 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD006 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD007 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD008 | 01703483 | CARBON FILM 470OHM+−5% 1/8W |
| RD009 | 0170345 | CARBON FILM 270OHM+−5% 1/8W |
| RD010 | 0170358 | CARBON FILM 3.3KOHM+−5% 1/8W |
| RF101 | 0101719 | FUSE RESSISTOR 3.3OHM+−5%1/4W |
| RF102 | 0101711 | FUSE RESISTOR 2.2OHM+−5% 1/4W |
| RF103 | 0101711 | FUSE RESISTOR 2.2OHM+−5% 1/4W |
| RT101 | 5007444 | SEMI VARIABLE 1KOHM |
| RT2001 | 5006255 | SEMI VARIABLE 2.2KOHM |
| RT301 | 5007443 | SEMI VARIABLE 470OHM |
| RT302 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT303 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT304 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT305 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT306 | 5007444 | SEMI VARIABLE 1KOHM |
| RT307 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT308 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT310 | 5007444 | SEMI VARIABLE 1KOHM |
| R1001 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1002 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1003 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1004 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1005 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1006 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R1007 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1008 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1009 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R101 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R1010 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1011 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R1012 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1013 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R1014 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1015 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1016 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1017 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1018 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1019 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R102 | 0101756 | RESISTOR 1.0KOHM+−1% 1/8W |
| R1020 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R1021 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R1022 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R103 | 0101763 | RESISTOR 4.7KOHM+-1% 1/8W | R1201 | 0101825 | CARBON FILM 220 OHM+-5% 1/4W |
| R1032 | 0171096 | CARBON FILM 1.8KOHM+-5% 1/8W | R1202 | 0101825 | CARBON FILM 220 OHM+-5% 1/4W |
| R104 | 0700071 | CARBON FILM 180KOHM+-5% 1/8W | R1203 | 0101824 | CARBON FILM 180 OHM+-5% 1/4W |
| R105 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W | R1204 | 0101824 | CARBON FILM 180 OHM+-5% 1/4W |
| R106 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W | R1205 | 0101829 | CARBON FILM 470OHM+-5% 1/4W |
| R107 | 0101759 | METAL FILM 2.2KOHM+-1% 1/8W | R1206 | 0101821 | CARBON FILM 100OHM+-5% 1/4W |
| R108 | 0101766 | CHIP RESISTOR 12KOHM+-1% 1/8W | R1207 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R109 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W | R121 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R110 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R122 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R1101 | 0101400 | CARBON FILM 75OHM+-5% 1/8W | R123 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R1102 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R124 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R1103 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R125 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1104 | 0700038 | CARBON FILM 680OHM+-5% 1/8W | R126 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1105 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W | R127 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R1106 | 1109023 | METAL FILM 75 OHM+-50% 1/8W | R128 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1107 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W | R129 | 0700059 | CARBON FILM 27KOHM+-5% 1/8W |
| R1108 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R130 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R1109 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R1301 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R111 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R1302 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1110 | 1109023 | METAL FILM 75 OHM+-50% 1/8W | R1303 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1111 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R1304 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1112 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R1305 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R1113 | 1109023 | METAL FILM 75 OHM+-50% 1/8W | R1306 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1114 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R1307 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R1115 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R1308 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R1116 | 0700032 | RESISTOR 220 OHM+-5% 1/8W | R1309 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R1117 | 0700029 | CARBON FILM 150OHM+-5% 1/8W | R131 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R1118 | 0700029 | CARBON FILM 150OHM+-5% 1/8W | R1311 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1119 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W | R1313 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R112 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R1314 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R1120 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W | R1315 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R1121 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W | R132 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1122 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R133 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R1123 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R134 | 0700038 | CARBON FILM 680OHM+-5% 1/8W |
| R1124 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R135 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1125 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R136 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1126 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R137 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1127 | 0101400 | CARBON FILM 75OHM+-5% 1/8W | R138 | 0700028 | CARBON FILM 120OHM+-5% 1/8W |
| R1128 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R139 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R1129 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R140 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R113 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R141 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1130 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R142 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R1131 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R143 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1132 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W | R144 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1133 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W | R145 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1134 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W | R146 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R1135 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W | R147 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1136 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W | R148 | 0700059 | CARBON FILM 27KOHM+-5% 1/8W |
| R1137 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W | R149 | 0700059 | CARBON FILM 27KOHM+-5% 1/8W |
| R1138 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W | R150 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1139 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W | R151 | 0700052 | CARBON FILM 6.8KOHM+-5% 1/8W |
| R114 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R152 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1140 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W | R153 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R1141 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W | R154 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R1142 | 0700031 | CARBON FILM 180OHM+-5% 1/8W | R155 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R1143 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W | R156 | 0700052 | CARBON FILM 6.8KOHM+-5% 1/8W |
| R1144 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W | R157 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1145 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W | R158 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1146 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W | R159 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R115 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R160 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R116 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W | R161 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R117 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W | R162 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R118 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W | R163 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R119 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R164 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R120 | 0700031 | CARBON FILM 180OHM+-5% 1/8W | R165 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R166 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R301 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R167 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R302 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R168 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R303 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W |
| R169 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R304 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R170 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R305 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R171 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R307 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R172 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R173 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R309 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R174 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R310 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R175 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R311 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R176 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R312 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R177 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R322 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R178 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R323 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R180 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R324 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R181 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R325 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R183 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R332 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R184 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R333 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R186 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R334 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R187 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R335 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R188 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R336 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R189 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R338 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R190 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R339 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R191 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R340 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R192 | 0700034 | CARBON FILM 330OHM+−5% 1/8W | R341 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W |
| R193 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R342 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R194 | 0700034 | CARBON FILM 330OHM+−5% 1/8W | R343 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R195 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R344 | 0700032 | RESISTOR 220 OHM+−5% 1/8W |
| R196 | 0700034 | CARBON FILM 330OHM+−5% 1/8W | R345 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R197 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R347 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W |
| R198 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R348 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W |
| R199 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R349 | 0101761 | CHIP RESISTOR 2.7KOHM+−1% 1/8W |
| R200 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R350 | 0700076 | CARBON FILM 470KOHM+−5% 1/8W |
| R201 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R351 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R202 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R352 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R203 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R353 | 0700075 | CARBON FILM 390KOHM+−5% 1/8W |
| R205 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R354 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W |
| R207 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R355 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R208 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R356 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R209 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R357 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R210 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W | R358 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R211 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R359 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R212 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R360 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R213 | 0700073 | CARBON FILM 270KOHM+−5% 1/8W | R361 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R214 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R362 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R215 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R367 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R216 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R368 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R217 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R369 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R218 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R370 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R219 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R371 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R220 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R372 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R246 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R373 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R247 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R374 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R253 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R375 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R254 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R376 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R255 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R377 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R256 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R378 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R257 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R379 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R258 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R380 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R259 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R381 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R260 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R382 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R261 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R383 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R262 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R384 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R263 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R385 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R264 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R386 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R266 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R387 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R388 | 0700039 | CARBON FILM 820OHM+−5% 1/8W | R455 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R389 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R456 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R390 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R457 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R391 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R458 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R392 | 0700039 | CARBON FILM 820OHM+−5% 1/8W | R459 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R393 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R460 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R394 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R461 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R395 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R462 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R396 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R463 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R397 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R464 | 0700029 | CARBON FILM 150OHM+−5% 1/8W |
| R398 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R465 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R399 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R466 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R400 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R467 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R401 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R468 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R402 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R469 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R403 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R470 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R404 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R471 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R405 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R472 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R406 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R473 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R407 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R474 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R408 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R475 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R409 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R476 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R410 | 0700068 | CARBON FILM 120KOHM+−5% 1/8W | R477 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| R411 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R478 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R412 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R479 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R413 | 0700037 | CARBON FILM 560OHM+−5% 1/8W | R480 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R416 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W | R481 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R417 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W | R482 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R418 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W | R483 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R419 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W | R484 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R420 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W | R485 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R421 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R486 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R422 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R487 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R423 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R488 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R424 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R489 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R425 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R490 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R426 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R491 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R427 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R492 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R428 | 0700033 | CARBON FILM 270OHM+−5% 1/8W | R493 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R429 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R494 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R430 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R495 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R431 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R496 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R432 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R497 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R433 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R498 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R434 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R499 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R435 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R500 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R436 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R501 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R437 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R502 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R438 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W | R503 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R439 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W | R504 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R440 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W | R505 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R441 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W | R506 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R442 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R507 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R443 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R508 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R444 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R509 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R445 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R513 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R446 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W | R514 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W |
| R447 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R515 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R448 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R516 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R449 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R517 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R450 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W | R518 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R451 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R519 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R452 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W | R520 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R453 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R521 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R454 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R522 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R523 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R525 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R701 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R702 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R703 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R704 | 0104116 | CHIP RESISTOR 39KOHM 1/10W |
| R705 | 0104111 | METAL FILM 10KOHM+-10% 1/10W |
| R706 | 0104123 | CHIP RESISTOR 8.2KOHM+-1% 1/10W |
| R715 | 0103855 | CHIP RESISTOR 10K0HM+-5% 0.1W |
| R718 | 0103879 | CHIP RESISTOR 1MOHM+-5% 0.1W |
| R719 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R720 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R721 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R722 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R723 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R724 | 0103848 | CHIP RESISTOR 2.7KOHM+-5% 0.1W |
| R725 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R726 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R727 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R728 | 0103855 | CHIP RESISTOR 10K0HM+-5% 0.1W |
| R729 | 0103841 | CHIP RESISTOR 680 OHM+-5% 0.1W |
| R730 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R731 | 0103851 | CHIP RESISTOR 4.7KOHM+-5% 0.1W |
| R732 | 0103849 | CHIP RESISTOR 3.3KOHM+-5% 0.1W |
| R735 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R736 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R901 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R902 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R903 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R904 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R905 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R906 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R907 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R908 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R909 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |

## SEMI-CONDUCTORS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D1001 | 5339141 | DIODE 1SS270 |
| D1002 | 5339141 | DIODE 1SS270 |
| D1003 | 5339141 | DIODE 1SS270 |
| D1004 | 5339141 | DIODE 1SS270 |
| D1005 | 5339141 | DIODE 1SS270 |
| D101 | 5339141 | DIODE 1SS270 |
| D1011 | 5331031 | DIODE 1SV68-01 |
| D102 | 5339141 | DIODE 1SS270 |
| D103 | 5339141 | DIODE 1SS270 |
| D104 | 5339141 | DIODE 1SS270 |
| D105 | 5339141 | DIODE 1SS270 |
| D106 | 5339141 | DIODE 1SS270 |
| D107 | 5339141 | DIODE 1SS270 |
| D1101 | 5339141 | DIODE 1SS270 |
| D1102 | 5339141 | DIODE 1SS270 |
| D1103 | 5339141 | DIODE 1SS270 |
| D1104 | 5339141 | DIODE 1SS270 |
| D1105 | 5339141 | DIODE 1SS270 |
| D1106 | 5339141 | DIODE 1SS270 |
| D1107 | 5339141 | DIODE 1SS270 |
| D112 | 5339231 | DIODE 1SR35-100A |
| D113 | 5339231 | DIODE 1SR35-100A |
| D114 | 5339141 | DIODE 1SS270 |
| D115 | 5339141 | DIODE 1SS270 |
| D116 | 5339141 | DIODE 1SS270 |
| D117 | 5339141 | DIODE 1SS270 |
| D118 | 5339141 | DIODE 1SS270 |
| D119 | 5339141 | DIODE 1SS270 |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D120 | 5339141 | DIODE 1SS270 |
| D1201 | 5339141 | DIODE 1SS270 |
| D121 | 5339141 | DIODE 1SS270 |
| D122 | 5339141 | DIODE 1SS270 |
| D123 | 5339141 | DIODE 1SS270 |
| D124 | 5339141 | DIODE 1SS270 |
| D125 | 5339141 | DIODE 1SS270 |
| D126 | 5339141 | DIODE 1SS270 |
| D127 | 5339141 | DIODE 1SS270 |
| D128 | 5339141 | DIODE 1SS270 |
| D130 | 5339141 | DIODE 1SS270 |
| D131 | 5339141 | DIODE 1SS270 |
| D133 | 5339141 | DIODE 1SS270 |
| D134 | 5339141 | DIODE 1SS270 |
| D135 | 5339141 | DIODE 1SS270 |
| D136 | 5339141 | DIODE 1SS270 |
| D137 | 5339141 | DIODE 1SS270 |
| D138 | 5339141 | DIODE 1SS270 |
| D139 | 5339141 | DIODE 1SS270 |
| D140 | 5339141 | DIODE 1SS270 |
| D141 | 5339141 | DIODE 1SS270 |
| D142 | 5339141 | DIODE 1SS270 |
| D143 | 5339141 | DIODE 1SS270 |
| D144 | 5339141 | DIODE 1SS270 |
| D145 | 5339141 | DIODE 1SS270 |
| D146 | 5339141 | DIODE 1SS270 |
| D147 | 5339141 | DIODE 1SS270 |
| D148 | 5339141 | DIODE 1SS270 |
| D210 | 5339141 | DIODE 1SS270 |
| D211 | 5339141 | DIODE 1SS270 |
| D213 | 5339141 | DIODE 1SS270 |
| D214 | 5339141 | DIODE 1SS270 |
| D215 | 5339141 | DIODE 1SS270 |
| D301 | 5339141 | DIODE 1SS270 |
| D302 | 5339141 | DIODE 1SS270 |
| D303 | 5339141 | DIODE 1SS270 |
| D304 | 5339141 | DIODE 1SS270 |
| D305 | 5332791 | DIODE 1SS270 |
| D702 | 5328321 | DIODE MA151K (MH) |
| D703 | 5328321 | DIODE MA151K (MH) |
| D705 | 5328321 | DIODE MA151K (MH) |
| D706 | 5328321 | DIODE MA151K (MH) |
| D707 | 5328321 | DIODE MA151K (MH) |
| D901 | 5339141 | DIODE 1SS270 |
| D902 | 5339141 | DIODE 1SS270 |
| D903 | 5339141 | DIODE 1SS270 |
| D904 | 5339141 | DIODE 1SS270 |
| D905 | 5339141 | DIODE 1SS270 |
| D906 | 5339141 | DIODE 1SS270 |
| D907 | 5339141 | DIODE 1SS270 |
| D908 | 5339141 | DIODE 1SS270 |
| D909 | 5339141 | DIODE 1SS270 |
| D910 | 5339141 | DIODE 1SS270 |
| IC1001 | 1361681 | IC HD44007A |
| IC1002 | 5301411 | IC NJU74HC04D |
| IC1003 | 5301611 | IC NJU74HC157D |
| IC101 | 1359991 | IC MB635120 |
| IC102 | 1342288 | IC M50558-112SP |
| IC103 | 1367401 | IC BR9021 |
| IC104 | 5301591 | IC SN74HC32N |
| IC105 | 5369911 | IC M54548L |
| IC106 | 5369171 | IC M54543L |
| IC107 | 5365673 | IC NJM2901N |
| IC108 | 5365673 | IC NJM2901N |
| IC109 | 1345791 | IC HA17807 |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| IC1101 | 1360271 | IC HA118104 |
| IC1102 | 1360271 | IC HA118104 |
| IC1103 | 1360271 | IC HA118104 |
| IC1201 | 1362352 | IC NJM7809FA |
| IC1202 | 1360351 | IC NJM7805FA |
| IC1203 | 1360351 | IC NJM7805FA |
| IC1204 | 1360351 | IC NJM7805FA |
| IC301 | 1360271 | IC HA118104 |
| IC302 | 5300781 | IC M51489L |
| IC303 | 1345841 | IC NJM2233BL |
| IC304 | 1340731 | IC V7021 |
| IC305 | 1360271 | IC HA118104 |
| IC306 | 1345921 | IC UPD6336C |
| IC307 | 1362256 | IC NJM2904L |
| IC308 | 1361771 | IC M5216L |
| IC309 | 1362256 | IC NJM2904L |
| IC310 | 1362256 | IC NJM2904L |
| IC311 | 1345841 | IC NJM2233BL |
| IC312 | 1341661 | IC LM393 |
| IC313 | 5301411 | IC NJU74HC04D |
| IC314 | 1341661 | IC LM393 |
| IC315 | 5367091 | IC HA11423 |
| IC316 | 5301641 | IC UPD74HC221AC |
| IC317 | 1340681 | IC V7040 |
| IC318 | 1359451 | IC CXA1211M |
| IC319 | 1359451 | IC CXA1211M |
| IC701 | 1354352 | IC CXD1175AM |
| IC702 | 1354352 | IC CXD1175AM |
| IC703 | 1354352 | IC CXD1175AM |
| IC704 | 1340741 | IC CXD1178Q |
| IC706 | 1365907 | IC HD6473378F10VY-MXS06A |
| IC707 | 1365772 | IC MB635130 |
| IC708 | 1343541 | IC SN74S124N |
| IC709 | 1359153 | IC HM514800LJP-8Z |
| IC710 | 1359153 | IC HM514800LJP-8Z |
| IC711 | 1359153 | IC HM514800LJP-8Z |
| IC721 | 5366542 | IC PST520C2 |
| IC722 | 5364601 | IC M5278L05 |
| IC723 | 1365841 | IC HD74HC74FP |
| Q1001 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1002 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1003 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q101 | 1320004 | TRANSISTOR 2SA854SQR |
| Q102 | 1320004 | TRANSISTOR 2SA854SQR |
| Q103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q104 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q105 | 5327076 | TRANSISTOR XDA144ES |
| Q106 | 5327071 | TRANSISTOR DTC124ES |
| Q107 | 5327252 | TRANSISTOR DTC114YS |
| Q108 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q109 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q110 | 5324631 | TRANSISTOR 2SA1390C |
| Q1101 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1102 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1104 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1105 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1106 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1107 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1108 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1109 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q111 | 5324631 | TRANSISTOR 2SA1390C |
| Q1110 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q112 | 5324631 | TRANSISTOR 2SA1390C |
| Q113 | 5324631 | TRANSISTOR 2SA1390C |
| Q114 | 5327071 | TRANSISTOR DTC124ES |
| Q115 | 5327071 | TRANSISTOR DTC124ES |
| Q116 | 5327071 | TRANSISTOR DTC124ES |
| Q117 | 5327072 | TRANSISTER DTA124ES |
| Q118 | 5327071 | TRANSISTOR DTC124ES |
| Q119 | 5327072 | TRANSISTER DTA124ES |
| Q120 | 5327071 | TRANSISTOR DTC124ES |
| Q1201 | 1321321 | TRANSISTOR 2SB1187(E/F) |
| Q1202 | 5327021 | TRANSISTOR 2SA844CD |
| Q1203 | 5327071 | TRANSISTOR DTC124ES |
| Q121 | 5327072 | TRANSISTER DTA124ES |
| Q122 | 5327071 | TRANSISTOR DTC124ES |
| Q123 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q124 | 5327071 | TRANSISTOR DTC124ES |
| Q125 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q126 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q127 | 5324111 | TRASISTOR 2SD1209 |
| Q128 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1301 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1302 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q1303 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q301 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q302 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q306 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q309 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q310 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q311 | 5327071 | TRANSISTOR DTC124ES |
| Q312 | 1320004 | TRANSISTOR 2SA854SQR |
| Q313 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q314 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q320 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q321 | 1320004 | TRANSISTOR 2SA854SQR |
| Q322 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q323 | 1320004 | TRANSISTOR 2SA854SQR |
| Q324 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q325 | 1320004 | TRANSISTOR 2SA854SQR |
| Q326 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q327 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q328 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q329 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q330 | 1320004 | TRANSISTOR 2SA854SQR |
| Q331 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q332 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q333 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q334 | 1320004 | TRANSISTOR 2SA854SQR |
| Q335 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q336 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q337 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q338 | 1320004 | TRANSISTOR 2SA854SQR |
| Q339 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q340 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q341 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q342 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q343 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q344 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q345 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q346 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q347 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q348 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q349 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q350 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q351 | 1320004 | TRANSISTOR 2SA854SQR |
| Q352 | 1320004 | TRANSISTOR 2SA854SQR |
| Q353 | 1320004 | TRANSISTOR 2SA854SQR |
| Q354 | 1320004 | TRANSISTOR 2SA854SQR |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q358 | 5327061 | TRANSISTOR 2SC1740S-ST |
| Q359 | 1320004 | TRANSISTOR 2SA854SQR |
| Q701 | 5328962 | TRANSISTOR 2SA1037K |
| Q702 | 5328972 | TRANSISTOR 2SC2412K-BRT |
| Q703 | 5328962 | TRANSISTOR 2SA1037K |
| Q704 | 5328972 | TRANSISTOR 2SC2412K-BRT |
| Q901 | 5327071 | TRANSISTOR DTC124ES |
| Q902 | 5327071 | TRANSISTOR DTC124ES |
| Q903 | 5327071 | TRANSISTOR DTC124ES |
| ZD101 | 5339251 | DIODE HZS2-C3 |
| ZD103 | 5339265 | DIODE HZS9-B3 |
| ZD104 | 5339251 | DIODE HZS2-C3 |
| ZD301 | 5339481 | DIODE HZS2B3 |
| ZD304 | 5339257 | DIODE HZS4 |
| ZD306 | 5339291 | DIODE HZS3B1 |

### COILS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| LT301 | 5124106 | COIL |
| L101 | 0770057 | CHOKE COIL 100UH+-5% |
| L102 | 0770046 | CHOKE COIL 15UH+-5% |
| L1101 | 0770044 | CHOKE COIL 10UH+-5% |
| L1102 | 0770044 | CHOKE COIL 10UH+-5% |
| L301 | 0770044 | CHOKE COIL 10UH+-5% |
| L302 | 0770057 | CHOKE COIL 100UH+-5% |
| L303 | 0770066 | CHOKE COIL 470UH+-5% |
| L304 | 0770056 | CHOKE COIL 82UH |
| L305 | 0770044 | CHOKE COIL 10UH+-5% |
| L306 | 0770062 | CHOKE COIL 220UH+-5% |
| L307 | 0770057 | CHOKE COIL 100UH+-5% |
| L309 | 0770057 | CHOKE COIL 100UH+-5% |
| L701 | 0773001 | CHOCE COIL 10UH+-10% |
| L702 | 0773001 | CHOCE COIL 10UH+-10% |
| L703 | 0773001 | CHOCE COIL 10UH+-10% |
| L704 | 0773001 | CHOCE COIL 10UH+-10% |
| L705 | 0773001 | CHOCE COIL 10UH+-10% |

### CRYSTALS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| XL1001 | 5778222 | CRYSTAL |
| XL301 | 5784551 | OSCILLATOR |
| XL701 | 1930011 | CRYSTAL |
| XL702 | 5778842 | OSCILLATOR |

### MISCELLANEOUS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC101 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC102 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC103 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC104 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC105 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC106 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC107 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC108 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC109 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC110 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC1102 | 0235362 | LINE FILTER |
| BC1103 | 0235362 | LINE FILTER |
| BC1104 | 0235362 | LINE FILTER |
| BC1105 | 0235362 | LINE FILTER |
| BC1106 | 0235362 | LINE FILTER |
| BC1107 | 0235362 | LINE FILTER |
| BC1108 | 0235362 | LINE FILTER |
| BC1109 | 0235362 | LINE FILTER |
| BC111 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC1110 | 0235362 | LINE FILTER |
| BC112 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC113 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC114 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC115 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC116 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC117 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC118 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC119 | 0209781 | CERAMIC CHIP 0.022UF+80-20% 16V |
| BC303 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC304 | 0209785 | CERAMIC CHIP 270PF+-20% 100V |
| BC701 | 0235364 | CERAMIC DISC 100PF+-20% 100V |
| CP1301 | 5165165 | FILTER |
| CP1302 | 5163082 | BAND PASS FILTER |
| CP307 | 5163463 | LOW PASS FILTER |
| CP308 | 5163463 | LOW PASS FILTER |
| CP309 | 5163463 | LOW PASS FILTER |
| CP310 | 5165165 | FILTER |
| CP311 | 5165165 | FILTER |
| CP312 | 5165165 | FILTER |
| CT1001 | 5058563 | TRIMMER |
| CT701 | 5058576 | CAPACTOR TRIMMER |
| DL1301 | 5165161 | DELAY LINE |
| DL1302 | 5165161 | DELAY LINE |
| DL305 | 5786131 | DELAY LINE |
| DL306 | 5165341 | DELAY LINE |
| DL307 | 5165213 | DELAY LINE |
| DL308 | 5163483 | DELAY LINE |
| GL001 | 5382391 | DIDOE GL-471 |
| GPS01 | 5382062 | DIODE GP1S06E |
| GPS02 | 5382351 | DIDOE GP2S05J |
| GPS03 | 5333391 | TRANSISTOR NJL5161K |
| GPS04 | 5333391 | TRANSISTOR NJL5161K |
| GPS05 | 5382382 | DIODE GP2S07B |
| GPS06 | 5382382 | DIODE GP2S07B |
| GPS07 | 5382382 | DIODE GP2S07B |
| GPS08 | 5382382 | DIODE GP2S07B |
| GPS09 | 5382351 | DIDOE GP2S05J |
| GPS10 | 5382053 | IC GP2S04B |
| J101 | 5695641 | PLUG |
| J301 | 5655091 | PLUG |
| J302 | 5655091 | PLUG |
| LD101 | 5381668 | LED SLH34MT3 |
| LD102 | 5381668 | LED SLH34MT3 |
| LD103 | 5381668 | LED SLH34MT3 |
| LD104 | 5381668 | LED SLH34MT3 |
| LD901 | 5381667 | LED SLH34MT3 |
| LD902 | 5381667 | LED SLH34MT3 |
| LD903 | 5381667 | LED SLH34MT3 |
| MSW01 | 5610811 | SWITCH,MODE |
| SWP02 | 5633693 | SWITCH |
| S101 | 5635113 | SWITCH |
| S102 | 5635113 | SWITCH |
| S103 | 5635113 | SWITCH |
| S104 | 5635113 | SWITCH |
| S105 | 5635113 | SWITCH |
| S106 | 5635113 | SWITCH |
| S1101 | 5621784 | SWITCH |
| S1102 | 5621463 | SWITCH |
| S1103 | 5610931 | SWITCH |
| S901 | 5634921 | SWITCH |
| S902 | 5635061 | SWITCH |
| S903 | 5635061 | SWITCH |
| S904 | 5635061 | SWITCH |
| S905 | 5635061 | SWITCH |
| S906 | 5635061 | SWITCH |
| S907 | 5635061 | SWITCH |
| S907 | 5635231 | SWITCH |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| S908 | 5635061 | SWITCH | | | |
| TPS01 | 1321602 | TRANSISTOR TPS605 | | | |

## 2. MECHANICAL PARTS LIST [VY-170 (E)]

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| **FOR FINAL ASSEMBLY** | | | 223 | 6806702 | ARM |
| | | | 224 | 6820271 | ARM |
| 101 | 6006718 | COVER, TOP | 225 | 6543131 | SPRING |
| 102 | 4720188 | PANEL, FRONT | 226 | 6437412 | GEAR |
| 103 | 6487315 | COVER, INK | 227 | 6556482 | SPRING |
| 104 | 4721392 | COVER, CONTROL | 228 | 6556481 | SPRING |
| 105 | 6484653 | COVER PAPER | 229 | 7786112 | POL SLIDER WASHER |
| 106 | 4890483 | BRACKET | 230 | 7474841 | PLATE |
| 107 | 6009441 | COVER, REAR (L) | 231 | 4583081 | SLIDER |
| 108 | 6009455 | COVER, REAR (R) | 232 | 6523915 | SPRING |
| 110 | 6893561 | LATCH | 233 | 4512201 | HOLDER, SHAFT |
| 112 | 6811721 | BRACKET | 234 | 7786113 | POLYESTER SLIDER WASHER |
| 115 | 6809961 | BRACKET, PWB (A) | 235 | 6437451 | GEAR |
| 116 | 6809982 | HOLDER, CBA | 236 | 6347983 | GEAR |
| 117 | 6813761 | BRACKET | 237 | 7469181 | PLATE |
| 118 | 6528221 | PLATE, EARTH | 238 | 6552311 | SPRING |
| 119 | 4899941 | BRACKET | 239 | 7467202 | ARM |
| 120 | 6338271 | SHAFT | 240 | 6437401 | GEAR |
| 121 | 5274185 | SWITCHING REGULATOR | 241 | 6347971 | GEAR |
| 126 | 6552751 | SPRING | 242 | 7789311 | WASHER |
| 127 | 4520651 | HOLDER | 243 | 6378321 | PLATE |
| 128 | 4520652 | HOLDER | 246 | 7473042 | ARM |
| 129 | 7230901 | E RING FOR SPRING MOUNTING | 244 | 7786119 | POLISLIDER WASHER |
| 130 | 6072702 | KNOB | 247 | 7442081 | BRACKET |
| 131 | 6324432 | PREVENTION SPRING | 248 | 5610811 | MODE SWITCH |
| 132 | 6813891 | DAMPER | 250 | 7138886 | CHASSIS (L) |
| 134 | 6438001 | RUBBER, LEG | 251 | 7139231 | SHASSIS (R) |
| 136 | 6006721 | COVER, BOTTOM | 252 | 6807051 | HOLDER |
| 137 | 6808681 | FELT, LEG | 256 | 5443541 | THERMAL HEAD |
| 138 | 4890391 | BRACKET | 257 | 6558163 | SPRING |
| 139 | 6813812 | LEVER | 258 | 6806841 | GUIDE |
| 140 | 6813821 | LEVER | 259 | 6558162 | SPRING |
| 141 | 7709091 | WASHER | 260 | 1620301 | PWB ASSY INK SENSOR (IS) |
| 142 | 6303471 | SPRING | 268 | 6807002 | GUIDE |
| 151 | 4950351 | PROTECTOR | 269 | 6807013 | GUIDE |
| 201 | 6415936 | REEL TABLE (T) | 271 | 1605962 | PWB ASSY PAPER SENSOR 1 |
| 202 | 6822551 | ARM | 282 | 1710031 | FAN |
| 203 | 7778859 | POLYSLIDER WASHER | 301 | 7132708 | PAPER SUPPLY MECHANISM ASSY |
| 204 | 4583011 | MOTOR | 302 | 6564274 | ROLLER |
| 205 | 6556461 | SPRING | 303 | 6564292 | ROLLER |
| 206 | 6347961 | WORM | 304 | 6300081 | SPRING |
| 207 | 6440112 | GEAR | 305 | 4512121 | HOLDER |
| 208 | 6806721 | BASE | 306 | 6357692 | BELT |
| 209 | 6564334 | DRUM | 307 | 6806742 | ARM |
| 210 | 5579341 | MOTOR, LOADING | 308 | 6806751 | ARM |
| 211 | 4512211 | HOLDER, SHAFT | 309 | 6552041 | SPRING |
| 212 | 6416482 | REEL TABLE (S) | 310 | 1605976 | PWB ASSY SWITCH/PAPER |
| 213 | 7442062 | BRACKET | 311 | 7787578 | WASHER |
| 215 | 6527601 | SPRING | 312 | 6440122 | GEAR |
| 216 | 6901041 | REEL CHASSIS | 313 | 6820432 | HOLDER |
| 217 | 7467223 | MOTOR, LOADING | 314 | 7467213 | ARM |
| 218 | 6807022 | GUIDE | 315 | 6564362 | ROLLER |
| 220 | 6437381 | GEAR | 316 | 6437361 | GEAR |
| 221 | 7873811 | GEAR ASSY | 319 | 6564341 | ROLLER |
| 222 | 6523452 | SPRING | 320 | 4583041 | TRAY |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 321 | 6529991 | SPRING |
| 322 | 6424441 | ROLLER |
| 323 | 6806872 | TRAY |
| 324 | 6806761 | ARM |
| 325 | 6806771 | ARM |
| 326 | 6806733 | LEVER |
| 327 | 4583091 | PLATE |
| 328 | 6556491 | SPRING |
| 329 | 6527591 | SPRING |
| 336 | 7778859 | POLYSLIDER WASHER |
| 337 | 4583061 | ARM |
| 338 | 4583051 | ARM |
| 339 | 4583071 | ARM |
| 340 | 6424451 | ROLLER |
| 341 | 6556302 | SPRING |
| 342 | 6300844 | SPRING |
| 343 | 4712961 | TRAY |
| 901 | 7784114 | SCREW (3X6) |
| 902 | 8741405 | SCREW — 3MMD X 5MM BIND |
| 903 | 8744406 | BINDDING SCREW—3MMD×6MM |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 904 | 8691410 | SCREW |
| 907 | 8741405 | SCREW — 3MMD X 5MM BIND |
| 908 | 87411063 | SCREW (2X6) |
| 909 | 8744406 | BINDING SCREW — 3MMD X 6MM |
| 951 | 8741405 | SCREW — 3MMD X 5MM BIND |
| 952 | 8741412 | SCREW (B3X12) |
| 953 | 8741108 | SCREW (2X8) |
| 954 | 7707531 | WASHER |
| 955 | 7774942 | E RING |
| 956 | 8741403 | BIND SCREW—3MMDX3MM |
| 957 | 8691405 | SCREW (3X5) |
| 958 | 87414303 | BIND SCREW—3MMDX30MM |
| 959 | 8812114 | WASHER — 3MMD SMALL |
| 960 | 8813114 | SPRING WASHER—3MMD |
| 961 | 0711304 | PAN HEAD SCREW—2.6MMD×4MM |
| | | **FOR ACCESSARIES** |
| 803 | 5852591 | CORD, POWER |

# 3. ELECTRICAL PARTS LIST [VY-300 (A)]

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| | | **CAPACITORS** | C117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| | | | C118 | 0800049 | ELECTROLYTIC 100UF 16V |
| C101 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C119 | 0800151 | ELECTROLYTIC 220UF 6.3V |
| C1016 | 0890037 | CERAMIC DISC 2200PF+−20% 16V | C120 | 0800109 | ELECTROLYTIC 1.0UF 50V |
| C1017 | 0890037 | CERAMIC DISC 2200PF+−20% 16V | C1201 | 0800197 | ELECTROLYTIC 220UF 16V |
| C1018 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C1202 | 0800192 | ELECTROLYTIC 100UF 16V |
| C102 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C1203 | 0800192 | ELECTROLYTIC 100UF 16V |
| C103 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C1204 | 0800192 | ELECTROLYTIC 100UF 16V |
| C104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C1205 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C105 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C1206 | 0800201 | ELECTROLYTIC 33UF 16V |
| C106 | 0800048 | ELECTROLYTIC 100UF 10V | C1207 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C107 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C1208 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C108 | 0800032 | ELECTROLYTIC 33UF 16V | C1209 | 0800201 | ELECTROLYTIC 33UF 16V |
| C109 | 0800015 | ELECTROLYTIC 10UF 16V | ⚠C121 | 0880015 | POLYESTER FILM 0.068UF+−10% 50V |
| C110 | 0800049 | ELECTROLYTIC 100UF 16V | C1210 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1101 | 0800183 | ELECTROLYTIC 33UF 10V | C1211 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1102 | 0800175 | ELECTROLYTIC 1.0UF 50V | C1212 | 0800201 | ELECTROLYTIC 33UF 16V |
| C1103 | 0800178 | ELECTROLYTIC 4.7UF 35V | C1213 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C1214 | 0800201 | ELECTROLYTIC 33UF 16V |
| C1105 | 0800175 | ELECTROLYTIC 1.0UF 50V | C1215 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1106 | 0800175 | ELECTROLYTIC 1.0UF 50V | C1216 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1107 | 0800175 | ELECTROLYTIC 1.0UF 50V | C1217 | 0800201 | ELECTROLYTIC 33UF 16V |
| C1108 | 0207406 | ELECTROLYTIC 10UF 10V | C122 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C1109 | 0800185 | ELECTROLYTIC 47UF 6.3V | C123 | 0800051 | ELECTROLYTIC 100UF 25V |
| C111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C124 | 0800107 | ELECTROLYTIC 0.47UF 50V |
| C1110 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C125 | 0800023 | ELECTROLYITC 22UF 16V |
| C1111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C126 | 0800049 | ELECTROLYTIC 100UF 16V |
| C1112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C127 | 0880013 | POLYESTER FILM 0.033UF+−10% 50V |
| C1113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C128 | 0800049 | ELECTROLYTIC 100UF 16V |
| C1114 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C129 | 0800015 | ELECTROLYTIC 10UF 16V |
| C1115 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C130 | 0800051 | ELECTROLYTIC 100UF 25V |
| C1116 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C131 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C132 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1118 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C133 | 0207458 | ELECTROLYTIC 10UF 25V |
| C1119 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C134 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C135 | 0800057 | ELECTROLYTIC 220UF 10V |
| C1120 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C136 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1121 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C137 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1122 | 0800153 | ELECTROLYTIC 470UF 6.3V | C138 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C1123 | 0800153 | ELECTROLYTIC 470UF 6.3V | C139 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C1124 | 0800153 | ELECTROLYTIC 470UF 6.3V | C140 | 0800041 | ELECTROLYTIC 47UF 16V |
| C1125 | 0800153 | ELECTROLYTIC 470UF 6.3V | C141 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C1127 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C142 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1128 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C143 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1129 | 0207406 | ELECTROLYTIC 10UF 10V | C144 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C145 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1130 | 0249647 | CERAMIC DISC 0.1UF+−10% 16V | C146 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1131 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C147 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1132 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C148 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1133 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C149 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C1134 | 0800186 | ELECTROLYTIC 47UF 16V | C150 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C1135 | 0800152 | ELECTROLYTIC 220UF 10V | C151 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C1136 | 0800151 | ELECTROLYTIC 220UF 6.3V | C152 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C1137 | 0800151 | ELECTROLYTIC 220UF 6.3V | C153 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C1138 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C154 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C1139 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C155 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C114 | 0890064 | CERAMIC DISC 18PF+−5% 50V | C156 | 0800041 | ELECTROLYTIC 47UF 16V |
| C1140 | 0207406 | ELECTROLYTIC 10UF 10V | C157 | 0800041 | ELECTROLYTIC 47UF 16V |
| C115 | 0890064 | CERAMIC DISC 18PF+−5% 50V | C158 | 0800041 | ELECTROLYTIC 47UF 16V |
| C116 | 0800003 | ELECTROLYTIC 1UF 50V | C159 | 0800041 | ELECTROLYTIC 47UF 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C160 | 0800041 | ELECTROLYTIC 47UF 16V |
| C161 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C162 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C163 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C164 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C165 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C301 | 0800031 | ELECTROLYTIC 33UF 10V |
| C302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C303 | 0800057 | ELECTROLYTIC 220UF 10V |
| C304 | 0800057 | ELECTROLYTIC 220UF 10V |
| C305 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C306 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C307 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C308 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C309 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C310 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C311 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C312 | 0209641 | CERAMIC DISC 10000PF+−10% 16V |
| C314 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C315 | 0800122 | ELECTROLYTIC 10UF 16V |
| C317 | 0207463 | ELECTROLYTIC 100UF 10V |
| C319 | 0890092 | CERAMIC DISC 2200PF+−10% 50V |
| C320 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C321 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C322 | 0207458 | ELECTROLYTIC 10UF 25V |
| C323 | 0800122 | ELECTROLYTIC 10UF 16V |
| C324 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C325 | 0800118 | ELECTROLYTIC 4.7UF 35V |
| C326 | 0800109 | ELECTROLYTIC 1.0UF 50V |
| C327 | 0800122 | ELECTROLYTIC 10UF 16V |
| C328 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C329 | 0800041 | ELECTROLYTIC 47UF 16V |
| C330 | 0890102 | CERAMIC DISC 0.022UF+80−20% 50V |
| C331 | 0800032 | ELECTROLYTIC 33UF 16V |
| C332 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C333 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C334 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C335 | 0254371 | ELECTROLYTIC 0.47UF 35V |
| C336 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C339 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C340 | 0800048 | ELECTROLYTIC 100UF 10V |
| C341 | 0800022 | ELECTROLYTIC 22UF 10V |
| C342 | 0800117 | ELECTROLYTIC 4.7UF 25V |
| C343 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C344 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C345 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C346 | 0207163 | TANTALUM 1.0UF+−10% 35V |
| C347 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C348 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C349 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C350 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C351 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C352 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C353 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C354 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C355 | 0800058 | ELECTROLYTIC 220UF 16V |
| C356 | 0800058 | ELECTROLYTIC 220UF 16V |
| C357 | 0800058 | ELECTROLYTIC 220UF 16V |
| C358 | 0800122 | ELECTROLYTIC 10UF 16V |
| C359 | 0800122 | ELECTROLYTIC 10UF 16V |
| C360 | 0800122 | ELECTROLYTIC 10UF 16V |
| C361 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C362 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C363 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C364 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C365 | 0800022 | ELECTROLYTIC 22UF 10V |
| C366 | 0800022 | ELECTROLYTIC 22UF 10V |
| C367 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C368 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C369 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C370 | 0800023 | ELECTROLYITC 22UF 16V |
| C371 | 0800023 | ELECTROLYITC 22UF 16V |
| C372 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C373 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C374 | 0800023 | ELECTROLYITC 22UF 16V |
| C375 | 0800023 | ELECTROLYITC 22UF 16V |
| C376 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C377 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C378 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C379 | 0800023 | ELECTROLYITC 22UF 16V |
| C380 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C381 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C383 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C384 | 0800122 | ELECTROLYTIC 10UF 16V |
| C385 | 0800022 | ELECTROLYTIC 22UF 10V |
| C386 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C387 | 0800122 | ELECTROLYTIC 10UF 16V |
| C388 | 0800022 | ELECTROLYTIC 22UF 10V |
| C389 | 0800058 | ELECTROLYTIC 220UF 16V |
| C390 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C391 | 0880016 | POLYESTER FILM 0.1UF+−10% 50V |
| C392 | 0800041 | ELECTROLYTIC 47UF 16V |
| C393 | 0204274 | POLYESTER FILM 4700PF+−5% 100V |
| C394 | 0880005 | POLYESTER FILM 2200PF+−10% 50V |
| C395 | 0800182 | ELECTROLYTIC 22UF 16V |
| C396 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C397 | 0800122 | ELECTROLYTIC 10UF 16V |
| C398 | 0880011 | POLYESTER FILM 0.015UF+−10% 50V |
| C399 | 0800066 | ELECTROLYTIC 330UF 16V |
| C400 | 0880014 | POLYESTER FILM 0.047UF+−10% 50V |
| C401 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C402 | 0880006 | POLYESTER FILM 3300PF+−10% 50V |
| C403 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C404 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C405 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C406 | 0204277 | POLYESTER FILM 1500PF+−5% 100V |
| C407 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C408 | 0204272 | POLYESTER FILM 3300PF+−5% 100V |
| C409 | 0800022 | ELECTROLYTIC 22UF 10V |
| C410 | 0800048 | ELECTROLYTIC 100UF 10V |
| C411 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C412 | 0800039 | ELECTROLYTIC 47UF 10V |
| C413 | 0800039 | ELECTROLYTIC 47UF 10V |
| C414 | 0800022 | ELECTROLYTIC 22UF 10V |
| C415 | 0800122 | ELECTROLYTIC 10UF 16V |
| C416 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C417 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C418 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C419 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C420 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C421 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C422 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C423 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C424 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C425 | 0890077 | CERAMIC DISC 180PF+−10% 50V |
| C426 | 0800057 | ELECTROLYTIC 220UF 10V |
| C427 | 0800057 | ELECTROLYTIC 220UF 10V |
| C428 | 0800057 | ELECTROLYTIC 220UF 10V |
| C429 | 0800022 | ELECTROLYTIC 22UF 10V |
| C430 | 0800122 | ELECTROLYTIC 10UF 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C431 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C440 | 0800023 | ELECTROLYITC 22UF 16V |
| C441 | 0207406 | ELECTROLYTIC 10UF 10V |
| C442 | 0207406 | ELECTROLYTIC 10UF 10V |
| C443 | 0207406 | ELECTROLYTIC 10UF 10V |
| C444 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C445 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C446 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C447 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C448 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C449 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C450 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C451 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C452 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C453 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C454 | 0800122 | ELECTROLYTIC 10UF 16V |
| C801 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C802 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C803 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C804 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C805 | 0806163 | ELECTROLYTIC 33UF 10V |
| C806 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C807 | 0806163 | ELECTROLYTIC 33UF 10V |
| C808 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C809 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C810 | 0806163 | ELECTROLYTIC 33UF 10V |
| C811 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C812 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C813 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C814 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C815 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C816 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C817 | 0806163 | ELECTROLYTIC 33UF 10V |
| C818 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C819 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C820 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C821 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C822 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C823 | 0806163 | ELECTROLYTIC 33UF 10V |
| C824 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C825 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C826 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C827 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C828 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C829 | 0806153 | ELECTROLYTIC 10UF 16V |
| C830 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C831 | 0806163 | ELECTROLYTIC 33UF 10V |
| C832 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C833 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C834 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C835 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C836 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C837 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C838 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C839 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C840 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C841 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C842 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C843 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C844 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C845 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C846 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C847 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C848 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C849 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C850 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C851 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C852 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C853 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C854 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C855 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C856 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C857 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C859 | 0806148 | ELECTROLYTIC 3.3UF 50V |
| C860 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C861 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C862 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C863 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C864 | 0209893 | CERAMIC CHIP 22PF+-10% 50V |
| C865 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C866 | 0806174 | ELECTROLYTIC 100UF 6.3V |
| C867 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C868 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C869 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C870 | 0209893 | CERAMIC CHIP 22PF+-10% 50V |
| C871 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C878 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C879 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |

**RESISTORS**

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| RA101 | 5068327 | BLOCK,CR |
| RD001 | 0170341 | CARBON FILM 120OHM+-5%,1/8W |
| RD002 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD003 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD004 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD005 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD006 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD007 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD008 | 01703483 | CARBON FILM 470OHM+-5% 1/8W |
| RD009 | 0170345 | CARBON FILM 270OHM+-5% 1/8W |
| RD010 | 0170358 | CARBON FILM 3.3KOHM+-5% 1/8W |
| RF101 | 0170472 | FUSE RESISTOR 3.3OHM+-5% 1/4W |
| RF102 | 0170471 | FUSE RESISTOR 2.2OHM+-5% 1/4W |
| RF103 | 01704713 | FUSE RESISTOR 2.2OHM+-5% 1/4W |
| RT101 | 5007444 | SEMI VARIABLE 1KOHM |
| RT2001 | 5006255 | SEMI VARIABLE 2.2KOHM |
| RT301 | 5007443 | SEMI VARIABLE 470OHM |
| RT302 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT303 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT304 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT305 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT306 | 5007444 | SEMI VARIABLE 1KOHM |
| RT307 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT308 | 5007445 | SEMI VARIABLE 2.2KOHM |
| R101 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R102 | 0101756 | RESISTOR 1.0KOHM+-1% 1/8W |
| R1023 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1025 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1026 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R1027 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W |
| R1028 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W |
| R1029 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R103 | 0101763 | RESISTOR 4.7KOHM+-1% 1/8W |
| R1030 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1031 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R104 | 0700071 | CARBON FILM 180KOHM+-5% 1/8W |
| R105 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R106 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R107 | 0101759 | METAL FILM 2.2KOHM+-1% 1/8W |
| R108 | 0101766 | CHIP RESISTOR 12KOHM+-1% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R109 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R121 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R110 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R122 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1101 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R123 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1102 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R124 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1103 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R125 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1104 | 0700038 | CARBON FILM 680OHM+−5% 1/8W | R126 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1105 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R127 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R1106 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1107 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R129 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1108 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R130 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R1109 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R131 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R111 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R132 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1110 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R133 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1111 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R134 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| R1112 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R135 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1113 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R136 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1114 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R137 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1115 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R138 | 0700028 | CARBON FILM 120OHM+−5% 1/8W |
| R1116 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W | R139 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R1117 | 0700029 | CARBON FILM 150OHM+−5% 1/8W | R140 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R1118 | 0700029 | CARBON FILM 150OHM+−5% 1/8W | R141 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1119 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R142 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R112 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R143 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1120 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R144 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1121 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R145 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1122 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R146 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1123 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R147 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1124 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R148 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1125 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R149 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1126 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R150 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1127 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R151 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| R1128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R152 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1129 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R153 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R113 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R154 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1130 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R155 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R1131 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R156 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| R1132 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R157 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1133 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R158 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1134 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R159 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1135 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R160 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1136 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R161 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1137 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R162 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1138 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R163 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1139 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R164 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R114 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R165 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1140 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R166 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1141 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R167 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1142 | 0700031 | CARBON FILM 180OHM+−5% 1/8W | R168 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1143 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R169 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1144 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R170 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1145 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R171 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1146 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R172 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R115 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R173 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R116 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R174 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R117 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W | R175 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R118 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W | R176 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R119 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R177 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R120 | 0700031 | CARBON FILM 180OHM+−5% 1/8W | R178 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1201 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W | R180 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1202 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W | R181 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1203 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W | R183 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1204 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W | R184 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1205 | 0101829 | CARBON FILM 470OHM+−5% 1/4W | R186 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1206 | 0101821 | CARBON FILM 100OHM+−5% 1/4W | R187 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1207 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R188 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R189 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R258 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R190 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R259 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R191 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R260 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R194 | 0700034 | CARBON FILM 330OHM+−5% 1/8W | R261 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R195 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R262 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R196 | 0700034 | CARBON FILM 330OHM+−5% 1/8W | R263 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R197 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R264 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R198 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R266 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R199 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R301 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R200 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R302 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R201 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R303 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W |
| R202 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R304 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R203 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R305 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R204 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R307 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R205 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R207 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R309 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R208 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R310 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R209 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R311 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R210 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W | R312 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R211 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R322 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R212 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R324 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R213 | 0700073 | CARBON FILM 270KOHM+−5% 1/8W | R325 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R214 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R329 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R215 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R330 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R216 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R332 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R217 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R333 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R218 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R334 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R219 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R335 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R220 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R336 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R221 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R337 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R222 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R338 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R223 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R339 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R224 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R340 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R225 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R341 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R226 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R342 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R227 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R343 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R228 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R344 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R229 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R345 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R230 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R347 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W |
| R231 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R348 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W |
| R232 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R349 | 1109038 | CHIP RESISTOR 1.2KOHM+−1% 1/8W |
| R233 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R350 | 0700076 | CARBON FILM 470KOHM+−5% 1/8W |
| R234 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R353 | 0700075 | CARBON FILM 390KOHM+−5% 1/8W |
| R235 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R354 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W |
| R236 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R355 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R237 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R356 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R238 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R357 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R239 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R358 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R240 | 0700018 | CARBON FILM 22OHM+−5% 1/8W | R359 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R241 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R360 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R242 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R361 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R243 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R362 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R244 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R367 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R245 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R368 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R246 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R369 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R247 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R370 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R249 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W | R371 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R250 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W | R372 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R251 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R373 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R252 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R374 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R253 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R375 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R254 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R376 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R255 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R377 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R256 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R378 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R257 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R379 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R380 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R447 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R381 | 0101400 | CARBON FILM 75OHM+-5% 1/8W | R448 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R382 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R449 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R383 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R450 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W |
| R384 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R451 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R385 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R452 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W |
| R386 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R453 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R387 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R454 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R388 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R455 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R389 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R456 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R390 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R457 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R391 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R458 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R392 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R459 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R393 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R460 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R394 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R461 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R395 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R462 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R396 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R463 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R397 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R464 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R398 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R465 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R399 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R466 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R400 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R467 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R401 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R468 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R402 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R469 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R403 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R470 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R404 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R471 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R405 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R472 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R406 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R473 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R407 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R474 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R408 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R475 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R409 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R476 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R410 | 0700068 | CARBON FILM 120KOHM+-5% 1/8W | R477 | 0700038 | CARBON FILM 680OHM+-5% 1/8W |
| R411 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W | R478 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R412 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W | R479 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R413 | 0700037 | CARBON FILM 560OHM+-5% 1/8W | R480 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R416 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W | R481 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R417 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W | R482 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R418 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W | R483 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R419 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W | R484 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R420 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W | R485 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R421 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W | R486 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R422 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R487 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R423 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W | R488 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R424 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R489 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R425 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W | R490 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R426 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W | R491 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R427 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R492 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R428 | 0700037 | CARBON FILM 560OHM+-5% 1/8W | R493 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R429 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R494 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R430 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R495 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R431 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W | R496 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R432 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R497 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R433 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R498 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R434 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W | R499 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R435 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R500 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R436 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R501 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R437 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R502 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R438 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W | R505 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R439 | 0700059 | CARBON FILM 27KOHM+-5% 1/8W | R506 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R440 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W | R507 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R441 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W | R508 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R442 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R509 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R443 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W | R513 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R444 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W | R514 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W |
| R445 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R515 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R446 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W | R516 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R517 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R518 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R519 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R520 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R521 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R522 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R523 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R524 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R525 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R526 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R527 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R801 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R802 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R803 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R804 | 0104116 | CHIP RESISTOR 39KOHM 1/10W |
| R805 | 0104111 | METAL FILM 10KOHM+−10% 1/10W |
| R806 | 0104123 | CHIP RESISTOR 8.2KOHM+−1% 1/10W |
| R807 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R808 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R809 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R810 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R811 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R812 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R813 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R814 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R818 | 0103879 | CHIP RESISTOR 1MOHM+−5% 0.1W |
| R819 | 0103831 | CHIP RESISTOR 100 OHM+−5% 0.1W |
| R820 | 0103831 | CHIP RESISTOR 100 OHM+−5% 0.1W |
| R821 | 0103831 | CHIP RESISTOR 100 OHM+−5% 0.1W |
| R822 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R823 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R824 | 0103848 | CHIP RESISTOR 2.7KOHM+−5% 0.1W |
| R825 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R826 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R827 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R828 | 0103855 | CHIP RESISTOR 10KOHM+−5% 0.1W |
| R829 | 0103841 | CHIP RESISTOR 680 OHM+−5% 0.1W |
| R830 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R831 | 0103851 | CHIP RESISTOR 4.7KOHM+−5% 0.1W |
| R832 | 0103849 | CHIP RESISTOR 3.3KOHM+−5% 0.1W |
| R833 | 0103851 | CHIP RESISTOR 4.7KOHM+−5% 0.1W |
| R901 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R902 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R903 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R904 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R905 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R906 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R907 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R908 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R909 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| | | **SEMI-CONDUCTORS** |
| DL303 | 5786411 | DELAY LINE |
| DL304 | 5165214 | DELAY LINE |
| DL306 | 5165341 | DELAY LINE |
| DL307 | 5165213 | DELAY LINE |
| DL308 | 5163483 | DELAY LINE |
| D101 | 5339141 | DIODE 1SS270 |
| D1012 | 5339141 | DIODE 1SS270 |
| D1013 | 5339141 | DIODE 1SS270 |
| D1014 | 5339141 | DIODE 1SS270 |
| D102 | 5339141 | DIODE 1SS270 |
| D103 | 5339141 | DIODE 1SS270 |
| D104 | 5339141 | DIODE 1SS270 |
| D105 | 5339141 | DIODE 1SS270 |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D106 | 5339141 | DIODE 1SS270 |
| D107 | 5339141 | DIODE 1SS270 |
| D108 | 5339141 | DIODE 1SS270 |
| D109 | 5339141 | DIODE 1SS270 |
| D1101 | 5339141 | DIODE 1SS270 |
| D1102 | 5339141 | DIODE 1SS270 |
| D1103 | 5339141 | DIODE 1SS270 |
| D1104 | 5339141 | DIODE 1SS270 |
| D1105 | 5339141 | DIODE 1SS270 |
| D1106 | 5339141 | DIODE 1SS270 |
| D1107 | 5339141 | DIODE 1SS270 |
| D112 | 5339231 | DIODE 1SR35−100A |
| D113 | 5339231 | DIODE 1SR35−100A |
| D114 | 5339141 | DIODE 1SS270 |
| D115 | 5339141 | DIODE 1SS270 |
| D116 | 5339141 | DIODE 1SS270 |
| D117 | 5339141 | DIODE 1SS270 |
| D118 | 5339141 | DIODE 1SS270 |
| D119 | 5339141 | DIODE 1SS270 |
| D120 | 5339141 | DIODE 1SS270 |
| D1201 | 5339141 | DIODE 1SS270 |
| D121 | 5339141 | DIODE 1SS270 |
| D122 | 5339141 | DIODE 1SS270 |
| D123 | 5339141 | DIODE 1SS270 |
| D124 | 5339141 | DIODE 1SS270 |
| D125 | 5339141 | DIODE 1SS270 |
| D126 | 5339141 | DIODE 1SS270 |
| D127 | 5339141 | DIODE 1SS270 |
| D128 | 5339141 | DIODE 1SS270 |
| D130 | 5339141 | DIODE 1SS270 |
| D131 | 5339141 | DIODE 1SS270 |
| D132 | 5339141 | DIODE 1SS270 |
| D133 | 5339141 | DIODE 1SS270 |
| D134 | 5339141 | DIODE 1SS270 |
| D135 | 5339141 | DIODE 1SS270 |
| D136 | 5339141 | DIODE 1SS270 |
| D137 | 5339141 | DIODE 1SS270 |
| D138 | 5339141 | DIODE 1SS270 |
| D139 | 5339141 | DIODE 1SS270 |
| D140 | 5339141 | DIODE 1SS270 |
| D141 | 5339141 | DIODE 1SS270 |
| D142 | 5339141 | DIODE 1SS270 |
| D143 | 5339141 | DIODE 1SS270 |
| D144 | 5339141 | DIODE 1SS270 |
| D145 | 5339141 | DIODE 1SS270 |
| D146 | 5339141 | DIODE 1SS270 |
| D147 | 5339141 | DIODE 1SS270 |
| D181 | 5339141 | DIODE 1SS270 |
| D182 | 5339141 | DIODE 1SS270 |
| D183 | 5339141 | DIODE 1SS270 |
| D184 | 5339141 | DIODE 1SS270 |
| D185 | 5339141 | DIODE 1SS270 |
| D186 | 5339141 | DIODE 1SS270 |
| D187 | 5339141 | DIODE 1SS270 |
| D188 | 5339141 | DIODE 1SS270 |
| D189 | 5339141 | DIODE 1SS270 |
| D190 | 5339141 | DIODE 1SS270 |
| D191 | 5339141 | DIODE 1SS270 |
| D192 | 5339141 | DIODE 1SS270 |
| D193 | 5339141 | DIODE 1SS270 |
| D194 | 5339141 | DIODE 1SS270 |
| D195 | 5339141 | DIODE 1SS270 |
| D196 | 5339141 | DIODE 1SS270 |
| D197 | 5339141 | DIODE 1SS270 |
| D198 | 5339141 | DIODE 1SS270 |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D199 | 5339141 | DIODE 1SS270 |
| D200 | 5339141 | DIODE 1SS270 |
| D201 | 5339141 | DIODE 1SS270 |
| D202 | 5339141 | DIODE 1SS270 |
| D203 | 5339141 | DIODE 1SS270 |
| D204 | 5339141 | DIODE 1SS270 |
| D205 | 5339141 | DIODE 1SS270 |
| D206 | 5339141 | DIODE 1SS270 |
| D207 | 5339141 | DIODE 1SS270 |
| D208 | 5339141 | DIODE 1SS270 |
| D209 | 5339231 | DIODE 1SR35−100A |
| D210 | 5339141 | DIODE 1SS270 |
| D211 | 5339141 | DIODE 1SS270 |
| D213 | 5339141 | DIODE 1SS270 |
| D214 | 5339141 | DIODE 1SS270 |
| D215 | 5339141 | DIODE 1SS270 |
| D301 | 5339141 | DIODE 1SS270 |
| D302 | 5339141 | DIODE 1SS270 |
| D303 | 5339141 | DIODE 1SS270 |
| D304 | 5339141 | DIODE 1SS270 |
| D802 | 5328321 | DIODE MA151K (MH) |
| D803 | 5328321 | DIODE MA151K (MH) |
| D804 | 5328321 | DIODE MA151K (MH) |
| D805 | 5328321 | DIODE MA151K (MH) |
| D806 | 5328321 | DIODE MA151K (MH) |
| D807 | 5328321 | DIODE MA151K (MH) |
| D901 | 5339141 | DIODE 1SS270 |
| D902 | 5339141 | DIODE 1SS270 |
| D903 | 5339141 | DIODE 1SS270 |
| D904 | 5339141 | DIODE 1SS270 |
| D905 | 5339141 | DIODE 1SS270 |
| D906 | 5339141 | DIODE 1SS270 |
| D907 | 5339141 | DIODE 1SS270 |
| D908 | 5339141 | DIODE 1SS270 |
| D909 | 5339141 | DIODE 1SS270 |
| D910 | 5339141 | DIODE 1SS270 |
| IC101 | 1359991 | IC MB635120 |
| IC102 | 1342288 | IC M50558−112SP |
| IC103 | 1367401 | IC BR9021 |
| IC104 | 5301591 | IC SN74HC32N |
| IC105 | 5369911 | IC M54548L |
| IC106 | 5369171 | IC M54543L |
| IC107 | 5365673 | IC NJM2901N |
| IC108 | 5365673 | IC NJM2901N |
| IC109 | 1345791 | IC HA17807 |
| IC110 | 5366851 | IC HD74LS221P |
| IC1101 | 1360271 | IC HA118104 |
| IC1102 | 1360271 | IC HA118104 |
| IC1103 | 1360271 | IC HA118104 |
| IC111 | 5359921 | IC HD74LS74P |
| IC112 | 1343731 | IC HD74LS14P |
| IC113 | 1343721 | IC HD7406P |
| IC114 | 1343602 | IC SN74ALS574BN |
| IC115 | 1343931 | IC HD74LS244P |
| IC116 | 1340751 | IC HD74LS641P |
| IC117 | 1342242 | IC UPD4711A |
| IC1201 | 1362352 | IC NJM7809FA |
| IC1202 | 1360351 | IC NJM7805FA |
| IC1203 | 1360351 | IC NJM7805FA |
| IC1204 | 1360351 | IC NJM7805FA |
| IC1205 | 1362352 | IC NJM7809FA |
| IC301 | 1360271 | IC HA118104 |
| IC302 | 5300781 | IC M51489L |
| IC303 | 1345841 | IC NJM2233BL |
| IC304 | 1340731 | IC V7021 |
| IC305 | 1360271 | IC HA118104 |
| IC306 | 1345921 | IC UPD6336C |
| IC307 | 1362256 | IC NJM2904L |
| IC308 | 1361771 | IC M5216L |
| IC309 | 1362256 | IC NJM2904L |
| IC310 | 1362256 | IC NJM2904L |
| IC311 | 1345841 | IC NJM2233BL |
| IC312 | 1341661 | IC LM393 |
| IC313 | 5301411 | IC NJU74HC04D |
| IC314 | 1341661 | IC LM393 |
| IC315 | 5367091 | IC HA11423 |
| IC316 | 5301641 | IC UPD74HC221AC |
| IC317 | 1340681 | IC V7040 |
| IC318 | 1359451 | IC CXA1211M |
| IC319 | 1359451 | IC CXA1211M |
| IC801 | 1354352 | IC CXD1175AM |
| IC802 | 1354352 | IC CXD1175AM |
| IC803 | 1354352 | IC CXD1175AM |
| IC804 | 1340741 | IC CXD1178Q |
| IC805 | 1365906 | IC HD 6473378F10 VY—MXF04 |
| IC806 | 1365904 | IC HD 6473378F10 VY—MXS04A |
| IC807 | 1365771 | IC MB635127 |
| IC808 | 1343541 | IC SN74S124N |
| IC809 | 1359153 | IC HM514800LJP−8Z |
| IC810 | 1359153 | IC HM514800LJP−8Z |
| IC811 | 1359153 | IC HM514800LJP−8Z |
| IC812 | 1359153 | IC HM514800LJP−8Z |
| IC813 | 1359153 | IC HM514800LJP−8Z |
| IC814 | 1359153 | IC HM514800LJP−8Z |
| IC815 | 1359153 | IC HM514800LJP−8Z |
| IC816 | 1359153 | IC HM514800LJP−8Z |
| IC817 | 1359153 | IC HM514800LJP−8Z |
| IC818 | 1359153 | IC HM514800LJP−8Z |
| IC819 | 1359153 | IC HM514800LJP−8Z |
| IC820 | 1359153 | IC HM514800LJP−8Z |
| IC821 | 5366542 | IC PST520C2 |
| IC822 | 5364601 | IC M5278L05 |
| IC823 | 1365411 | IC HD74HC08FP |
| IC824 | 1365411 | IC HD74HC08FP |
| IC825 | 1365841 | IC HD74HC74FP |
| Q1004 | 5327071 | TRANSISTOR DTC124ES |
| Q1005 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1006 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1007 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q101 | 1320004 | TRANSISTOR 2SA854SQR |
| Q102 | 1320004 | TRANSISTOR 2SA854SQR |
| Q103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q105 | 5327076 | TRANSISTOR XDA144ES |
| Q106 | 5327071 | TRANSISTOR DTC124ES |
| Q107 | 5327252 | TRANSISTOR DTC114YS |
| Q108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q110 | 5324631 | TRANSISTOR 2SA1390C |
| Q1101 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1102 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1105 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1106 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1107 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q111 | 5324631 | TRANSISTOR 2SA1390C |
| Q1110 | 5327061 | TRANSISTOR 2SC1740S−ST |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q112 | 5324631 | TRANSISTOR 2SA1390C |
| Q113 | 5324631 | TRANSISTOR 2SA1390C |
| Q114 | 5327071 | TRANSISTOR DTC124ES |
| Q115 | 5327071 | TRANSISTOR DTC124ES |
| Q116 | 5327071 | TRANSISTOR DTC124ES |
| Q119 | 5327072 | TRANSISTER DTA124ES |
| Q120 | 5327071 | TRANSISTOR DTC124ES |
| Q1201 | 1321321 | TRANSISTOR 2SB1187(E/F) |
| Q1202 | 5327021 | TRANSISTOR 2SA844CD |
| Q1203 | 5327071 | TRANSISTOR DTC124ES |
| Q121 | 5327072 | TRANSISTER DTA124ES |
| Q122 | 5327071 | TRANSISTOR DTC124ES |
| Q123 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q124 | 5327071 | TRANSISTOR DTC124ES |
| Q125 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q126 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q127 | 5324111 | TRASISTOR 2SD1209 |
| Q128 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q306 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q309 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q310 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q311 | 5327071 | TRANSISTOR DTC124ES |
| Q312 | 1320004 | TRANSISTOR 2SA854SQR |
| Q313 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q314 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q320 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q321 | 1320004 | TRANSISTOR 2SA854SQR |
| Q322 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q323 | 1320004 | TRANSISTOR 2SA854SQR |
| Q324 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q325 | 1320004 | TRANSISTOR 2SA854SQR |
| Q326 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q327 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q328 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q329 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q330 | 1320004 | TRANSISTOR 2SA854SQR |
| Q331 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q332 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q333 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q334 | 1320004 | TRANSISTOR 2SA854SQR |
| Q335 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q336 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q337 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q338 | 1320004 | TRANSISTOR 2SA854SQR |
| Q339 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q340 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q341 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q342 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q343 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q344 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q345 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q346 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q347 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q348 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q349 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q350 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q351 | 1320004 | TRANSISTOR 2SA854SQR |
| Q352 | 1320004 | TRANSISTOR 2SA854SQR |
| Q353 | 1320004 | TRANSISTOR 2SA854SQR |
| Q354 | 1320004 | TRANSISTOR 2SA854SQR |
| Q358 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q359 | 1320004 | TRANSISTOR 2SA854SQR |
| Q801 | 5328962 | TRANSISTOR 2SA1037K |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q802 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q803 | 5328962 | TRANSISTOR 2SA1037K |
| Q804 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q901 | 5327071 | TRANSISTOR DTC124ES |
| Q902 | 5327071 | TRANSISTOR DTC124ES |
| Q903 | 5327071 | TRANSISTOR DTC124ES |
| ZD101 | 5339251 | DIODE HZS2−C3 |
| ZD103 | 5339265 | DIODE HZS9−B3 |
| ZD104 | 5339251 | DIODE HZS2−C3 |
| ZD141 | 5339297 | DIODE HZS5C3 |
| ZD301 | 5339481 | DIODE HZS2B3 |
| ZD304 | 5339257 | DIODE HZS4 |
| ZD306 | 5339291 | DIODE HZS3B1 |

### COILS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| LD101 | 5381668 | LED SLH34MT3 |
| LD102 | 5381668 | LED SLH34MT3 |
| LD103 | 5381668 | LED SLH34MT3 |
| LD104 | 5381668 | LED SLH34MT3 |
| LD901 | 5381667 | LED SLH34MT3 |
| LD902 | 5381001 | LED SLR−34URC5 |
| LD903 | 5381001 | LED SLR−34URC5 |
| L101 | 0770057 | CHOKE COIL 100UH+−5% |
| L102 | 0770046 | CHOKE COIL 15UH+−5% |
| L1101 | 0770044 | CHOKE COIL 10UH+−5% |
| L1102 | 0770044 | CHOKE COIL 10UH+−5% |
| L141 | 5159147 | CHOKE COIL 33UH |
| L302 | 0770057 | CHOKE COIL 100UH+−5% |
| L303 | 0770066 | CHOKE COIL 470UH+−5% |
| L304 | 0770057 | CHOKE COIL 100UH+−5% |
| L305 | 0770044 | CHOKE COIL 10UH+−5% |
| L306 | 0770062 | CHOKE COIL 220UH+−5% |
| L307 | 0770057 | CHOKE COIL 100UH+−5% |
| L309 | 0770057 | CHOKE COIL 100UH+−5% |
| L801 | 0773001 | CHOCE COIL 10UH+−10% |
| L802 | 0773001 | CHOCE COIL 10UH+−10% |
| L803 | 0773001 | CHOCE COIL 10UH+−10% |
| L804 | 0773001 | CHOCE COIL 10UH+−10% |
| L805 | 0773001 | CHOCE COIL 10UH+−10% |

### CRYSTALS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| XL301 | 5780651 | 3.58MHZ XTAL |
| XL801 | 5778431 | CRYSTAL |
| XL802 | 5778842 | OSCILLATOR |
| XL803 | 5778842 | OSCILLATOR |

### MISCELLANEOUS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC101 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC102 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC103 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC104 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC105 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC106 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC107 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC108 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC109 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC110 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1102 | 0235362 | LINE FILTER |
| BC1103 | 0235362 | LINE FILTER |
| BC1104 | 0235362 | LINE FILTER |
| BC1105 | 0235362 | LINE FILTER |
| BC1106 | 0235362 | LINE FILTER |
| BC1107 | 0235362 | LINE FILTER |
| BC1108 | 0235362 | LINE FILTER |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC1109 | 0235362 | LINE FILTER |
| BC111 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1110 | 0235362 | LINE FILTER |
| BC112 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC113 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC114 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC115 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC116 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC117 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC118 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC119 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC141 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC142 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC143 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC144 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC303 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC304 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC801 | 0235363 | LINE FILTER |
| BL101 | 5272378 | LC FILTER |
| BL102 | 5272378 | LC FILTER |
| BL103 | 5272378 | LC FILTER |
| BL104 | 5272378 | LC FILTER |
| BL105 | 5272378 | LC FILTER |
| BL106 | 5272378 | LC FILTER |
| BL107 | 5272378 | LC FILTER |
| BL108 | 5272378 | LC FILTER |
| BL109 | 5272378 | LC FILTER |
| BL110 | 5272378 | LC FILTER |
| BL111 | 5272378 | LC FILTER |
| BL112 | 5272378 | LC FILTER |
| BL113 | 5272378 | LC FILTER |
| BL114 | 5272378 | LC FILTER |
| BU1001 | 5409273 | BUZZER |
| CN1116 | 5843881 | CONNECTOR |
| CN1117 | 5843882 | CONNECTOR |
| CN1121 | 5844719 | CONNECTOR |
| CP303 | 5164893 | FILTER,BAND PASS |
| CP307 | 5163463 | LOW PASS FILTER |
| CP308 | 5163463 | LOW PASS FILTER |
| CP309 | 5163463 | LOW PASS FILTER |
| CT801 | 5058576 | CAPACTOR TRIMMER |
| GL001 | 5382391 | DIDOE GL−471 |
| GPS01 | 5382062 | DIODE GP1S06E |
| GPS02 | 5382351 | DIDOE GP2S05J |
| GPS03 | 5333391 | TRANSISTOR NJL5161K |
| GPS04 | 5333391 | TRANSISTOR NJL5161K |
| GPS05 | 5382382 | DIODE GP2S07B |
| GPS06 | 5382382 | DIODE GP2S07B |
| GPS07 | 5382382 | DIODE GP2S07B |
| GPS08 | 5382382 | DIODE GP2S07B |
| GPS09 | 5382351 | DIDOE GP2S05J |
| GPS10 | 5382053 | IC GP2S04B |
| J101 | 5695641 | PLUG |
| J102 | 5694934 | JACK |
| J103 | 5694862 | JACK |
| J1101 | 5699341 | PLUG |
| J1102 | 5699341 | PLUG |
| J1103 | 5699341 | PLUG |
| J1104 | 5699341 | PLUG |
| J1105 | 5699341 | PLUG |
| J1106 | 5699341 | PLUG |
| J1107 | 5699341 | PLUG |
| J1108 | 5699341 | PLUG |
| J1109 | 5699341 | PLUG |
| J1110 | 5699341 | PLUG |
| J301 | 5655091 | PLUG |
| J302 | 5655091 | PLUG |
| MSW01 | 5610811 | SWITCH,MODE |
| PG110 | 5661814 | MINI PLUG |
| PG811 | 5669351 | CONNECTOR |
| PG812 | 5669352 | CONNECTOR |
| PG813 | 5669351 | CONNECTOR |
| PG814 | 5669351 | CONNECTOR |
| PG910 | 5661824 | MINI PLUG |
| SWP02 | 5633693 | SWITCH |
| S101 | 5635113 | SWITCH |
| S102 | 5635113 | SWITCH |
| S103 | 5635113 | SWITCH |
| S104 | 5635113 | SWITCH |
| S105 | 5635113 | SWITCH |
| S106 | 5635113 | SWITCH |
| S1101 | 5621784 | SWITCH |
| S1102 | 5621463 | SWITCH |
| S1103 | 5610931 | SWITCH |
| S1104 | 5621784 | SWITCH |
| S901 | 5634921 | SWITCH |
| S902 | 5635061 | SWITCH |
| S903 | 5635061 | SWITCH |
| S904 | 5635061 | SWITCH |
| S905 | 5635061 | SWITCH |
| S906 | 5635061 | SWITCH |
| S907 | 5635061 | SWITCH |
| S907 | 5635231 | SWITCH |
| TPS01 | 1321602 | TRANSISTOR TPS605 |

# 4. MECHANICAL PARTS LIST [VY-300 (A)]

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **FOR FINAL ASSEMBLY** |
| 101 | 6006718 | COVER,TOP |
| 102 | 4720189 | PANEL,FRONT |
| 103 | 6487315 | COVER.INK |
| 104 | 4721393 | COVER,CONTROL |
| 105 | 6484653 | COVER,PAPER |
| 106 | 4890483 | BRACKET |
| 107 | 6009442 | COVER,REAR(L) |
| 108 | 6009458 | COVER,REAR(R) |
| 110 | 6893561 | LATCH |
| 112 | 6811721 | BRACKET |
| 115 | 6809961 | BRACKET,PWB(A) |
| 116 | 6809982 | HOLDER,CBA |
| 117 | 6813761 | BRACKET |
| 118 | 6528221 | PLATE,EARTH |
| 119 | 4899941 | BRACKET |
| 120 | 6338271 | SHAFT |
| 121 | 5273855 | SWITCHING REGULATOR |
| 126 | 6552751 | SPRING |
| 127 | 4520651 | HOLDER |
| 128 | 4520652 | HOLDER |
| 129 | 7230901 | E RING FOR SPRING MOUNTING |
| 130 | 6072702 | KNOB |
| 131 | 6324432 | PREVENTION SPRING |
| 132 | 6813891 | DAMPER |
| 142 | 6438001 | LEG |
| 136 | 6006721 | COVER,BOTTOM |
| 137 | 6808681 | FELT,LEG |
| 138 | 4890391 | BRACKET |
| 139 | 6813812 | LEVER |
| 140 | 6813821 | LEVER |
| 141 | 7709091 | WASHER |
| 142 | 6303471 | SPRING |
| 151 | 4950351 | PROTECTOR |
| 201 | 6415936 | REEL TABLE(T) |
| 202 | 6822551 | ARM |
| 203 | 7778859 | POLYSLIDER WASHER |
| 204 | 4583011 | MOTOR |
| 205 | 6556461 | SPRING |
| 206 | 6347961 | WORM |
| 207 | 6440112 | GEAR |
| 208 | 6806721 | BASE |
| 209 | 6564334 | DRUM |
| 210 | 5579341 | MOTOR,LOADING |
| 211 | 4512211 | HOLDER,SHAFT |
| 212 | 6416482 | REEL TABLE(S) |
| 213 | 7442062 | BRACKET |
| 215 | 6527601 | SPRING |
| 216 | 6901041 | REEL CHASSIS |
| 217 | 7467223 | MOTOR,LOADING |
| 218 | 6807022 | GUIDE |
| 220 | 6437381 | GEAR |
| 221 | 7873811 | GEAR ASSY |
| 222 | 6523452 | SPRING |
| 223 | 6806702 | ARM |
| 224 | 6820271 | ARM |
| 225 | 6543131 | SPRING |
| 226 | 6437412 | GEAR |
| 227 | 6556482 | SPRING |
| 228 | 6556481 | SPRING |
| 229 | 7786112 | POL SLIDER WASHER |
| 230 | 7474841 | PLATE |
| 231 | 4583081 | SLIDER |
| 232 | 6523915 | SPRING |
| 233 | 4512201 | HOLDER,SHAFT |
| 234 | 7786113 | POLYESTER SLIDER WASHER |
| 235 | 6437451 | GEAR |
| 236 | 6347983 | GEAR |
| 237 | 7469181 | PLATE |
| 238 | 6552311 | SPRING |
| 239 | 7467202 | ARM |
| 240 | 6437401 | GEAR |
| 241 | 6347971 | GEAR |
| 242 | 7789311 | WASHER |
| 243 | 6378321 | PLATE |
| 244 | 7786119 | POLISLIDER WASHER |
| 246 | 7473042 | ARM |
| 247 | 7442081 | BRACKET |
| 248 | 5610811 | MODE SWITCH |
| 250 | 7138886 | CHASSIS(L) |
| 251 | 7139231 | SHASSIS |
| 252 | 6807051 | HOLDER |
| 256 | 5443531 | THERMAL HEAD |
| 257 | 6558163 | SPRING |
| 258 | 6806841 | GUIDE |
| 259 | 6558162 | SPRING |
| 260 | 1620301 | PWB ASSY INK SENSOR(IS) |
| 268 | 6807002 | GUIDE |
| 269 | 6807013 | GUIDE |
| 271 | 1605962 | PWB ASSY PAPER SENSOR 1 |
| 282 | 1710031 | FAN |
| 301 | 7132708 | PAPER SUPPLY MECHANISM ASSY |
| 302 | 6564274 | ROLLER |
| 303 | 6564292 | ROLLER |
| 304 | 6300081 | SPRING |
| 305 | 4512121 | HOLDER |
| 306 | 6357692 | BELT |
| 307 | 6806742 | ARM |
| 308 | 6806751 | ARM |
| 309 | 6552041 | SPRING |
| 310 | 1605976 | PWB ASSY SWITCH/PAPER |
| 311 | 7787578 | WASHER |
| 312 | 6440122 | GEAR |
| 313 | 6820432 | HOLDER |
| 314 | 7467213 | ARM |
| 315 | 6564362 | GEAR |
| 316 | 6437361 | GEAR |
| 319 | 6564341 | ROLLER |
| 320 | 4583041 | TRAY |
| 321 | 6529991 | SPRING |
| 322 | 6424441 | ROLLER |
| 323 | 6806872 | TRAY |
| 324 | 6806761 | ARM |
| 325 | 6806771 | ARM |
| 326 | 6806733 | LEVER |
| 327 | 4583091 | PLATE |
| 328 | 6556491 | SPRING |
| 329 | 6527591 | SPRING |
| 336 | 7778859 | POLYSLIDER WASHER |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 337 | 4583061 | ARM |
| 338 | 4583051 | ARM |
| 339 | 4583071 | ARM |
| 340 | 6424451 | ROLLER |
| 341 | 6556302 | SPRING |
| 342 | 6300844 | SPRING |
| 343 | 4712961 | TRAY |
| 901 | 7784114 | SCREW(3X6) |
| 902 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 903 | 8744406 | BINDING SCREW—3MMD×6MM |
| 904 | 8691410 | SCREW |
| 907 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 908 | 87411063 | SCREW (2X6) |
| 909 | 8744406 | BINDING SCREW – 3MMD X 6MM |
| 951 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 952 | 8741412 | SCREW (B3X12) |
| 953 | 8741108 | SCREW (2X8) |
| 954 | 7707531 | WASHER |
| 955 | 7774942 | E RING |
| 956 | 8741403 | BIND SCREW–3MMDX3MM |
| 957 | 8691405 | SCREW(3X5) |
| 958 | 87414303 | BIND SCREW–3MMDX30MM |
| 959 | 8812114 | WASHER – 3MMD SMALL |
| 960 | 8813114 | SPRING WASHER–3MMD |
| 961 | 0711304 | PAN HEAD SCREW—2.6MMD×4MM |
| | | **FOR ACCESSARIES** |
| 802 | 5617196 | REMOTE HAND SET |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|

## 5. ELECTRICAL PARTS LIST [VY-300 (E)]

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **CAPACITORS** |
| CT1001 | 5058563 | TRIMMER |
| CT801 | 5058576 | CAPACTOR TRIMMER |
| C1001 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1002 | 0890069 | CERAMIC DISC 47PF+−5% 50V |
| C1004 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C1005 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1007 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1008 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1009 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C101 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1011 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1012 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1016 | 0890037 | CERAMIC DISC 2200PF+−20% 16V |
| C1017 | 0890037 | CERAMIC DISC 2200PF+−20% 16V |
| C1018 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C102 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C103 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C105 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C107 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1110 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1114 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1115 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1116 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1118 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1119 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1120 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1121 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1127 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1128 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1130 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1131 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1132 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1133 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1138 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1139 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C114 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C115 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1205 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1207 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1208 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| ⚠C121 | 0880015 | POLYESTER FILM 0.068UF+−10% 50V |
| C1210 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1211 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1213 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1215 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1216 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C122 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C127 | 0880013 | POLYESTER FILM 0.033UF+−10% 50V |
| C1301 | 0890074 | CERAMIC DISC 100PF+−5% 50V |
| C1302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C131 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C132 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C134 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C136 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C137 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C138 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C139 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C141 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C142 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C143 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C144 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C145 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C146 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C147 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C148 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C149 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C150 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C151 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C152 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C153 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C154 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C155 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C161 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C162 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C163 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C164 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C165 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C305 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C306 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C307 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C308 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C309 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C310 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C311 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C312 | 0209641 | CERAMIC DISC 10000PF+−10% 16V |
| C314 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C319 | 0890092 | CERAMIC DISC 2200PF+−10% 50V |
| C320 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C321 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C324 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C328 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C330 | 0890102 | CERAMIC DISC 0.022UF+80−20% 50V |
| C332 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C333 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C334 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C336 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C337 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C338 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C339 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C343 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C344 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C345 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C346 | 0207163 | TANTALUM 1.0UF+−10% 35V |
| C347 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C348 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C349 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C350 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C351 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C352 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C353 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C354 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C361 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C362 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C363 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C364 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C367 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C368 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C369 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C372 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C373 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C376 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C377 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C378 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C380 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C381 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C383 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C386 | 0890087 | CERAMIC 1000PF+-10% 50V |
| C390 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C391 | 0880016 | POLYESTER FILM 0.1UF+-10% 50V |
| C393 | 0204274 | POLYESTER FILM 4700PF+-5% 100V |
| C394 | 0880005 | POLYESTER FILM 2200PF+-10% 50V |
| C396 | 0880008 | POLYESTER FILM 6800PF+-10% 50V |
| C398 | 0880011 | POLYESTER FILM 0.015UF+-10% 50V |
| C400 | 0880014 | POLYESTER FILM 0.047UF+-10% 50V |
| C401 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C402 | 0880006 | POLYESTER FILM 3300PF+-10% 50V |
| C403 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C404 | 0880008 | POLYESTER FILM 6800PF+-10% 50V |
| C405 | 0880003 | POLYESTER FILM 1000PF+-10% 50V |
| C406 | 0204277 | POLYESTER FILM 1500PF+-5% 100V |
| C407 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C408 | 0204272 | POLYESTER FILM 3300PF+-5% 100V |
| C411 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C416 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C417 | 0890064 | CERAMIC DISC 18PF+-5% 50V |
| C418 | 0890043 | CERAMIC DISC 0.01UF+-20% 16V |
| C419 | 0890043 | CERAMIC DISC 0.01UF+-20% 16V |
| C420 | 0890043 | CERAMIC DISC 0.01UF+-20% 16V |
| C421 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C422 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C423 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C424 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C425 | 0890075 | CERAMIC DISC 120PF+-5% 50V |
| C431 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C444 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C445 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C446 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C447 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C448 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C449 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C450 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C451 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C452 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C453 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C801 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C802 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C803 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C804 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C806 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C808 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C809 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C811 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C812 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C813 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C814 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C815 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C816 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C818 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C819 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C820 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C821 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C822 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C824 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C825 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C826 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C827 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C828 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C830 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C832 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C833 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C834 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C835 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C836 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C837 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C838 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C839 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C840 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C841 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C842 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C843 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C844 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C845 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C846 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C847 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C848 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C849 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C850 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C851 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C852 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C853 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C854 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C855 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C856 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C857 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C860 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C861 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C862 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C863 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C864 | 0209893 | CERAMIC CHIP 22PF+-10% 50V |
| C865 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C867 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C868 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C869 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C870 | 0209893 | CERAMIC CHIP 22PF+-10% 50V |
| C871 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C878 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C879 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |

## RESISTORS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| RA101 | 5068327 | BLOCK,CR |
| RD001 | 0170341 | CARBON FILM 120OHM+-5%,1/8W |
| RD002 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD003 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD004 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD005 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD006 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD007 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| RD008 | 01703483 | CARBON FILM 470OHM+-5% 1/8W |
| RD009 | 0170345 | CARBON FILM 270OHM+-5% 1/8W |
| RD010 | 0170358 | CARBON FILM 3.3KOHM+-5% 1/8W |
| RF101 | 0170472 | FUSE RESISTOR 3.3OHM+-5% 1/4W |
| RF102 | 0101711 | FUSE RESISTOR 2.2OHM+-5% 1/4W |
| RF103 | 0101711 | FUSE RESISTOR 2.2OHM+-5% 1/4W |
| RT101 | 5007444 | SEMI VARIABLE 1KOHM |
| RT2001 | 5006255 | SEMI VARIABLE 2.2KOHM |
| RT301 | 5007443 | SEMI VARIABLE 470OHM |
| RT302 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT303 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT304 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT305 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT306 | 5007444 | SEMI VARIABLE 1KOHM |
| RT307 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT308 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT310 | 5007444 | SEMI VARIABLE 1KOHM |
| R1001 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1002 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1003 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1004 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1005 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1006 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R1007 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1008 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1009 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R101 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R1010 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1011 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1012 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R1013 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1014 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1015 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1016 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1017 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R1018 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1019 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R102 | 0101756 | RESISTOR 1.0KOHM+-1% 1/8W |
| R1020 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1021 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R1022 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1023 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1025 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1026 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R1027 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W |
| R1028 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W |
| R1029 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R103 | 0101763 | RESISTOR 4.7KOHM+-1% 1/8W |
| R1030 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R1031 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1032 | 0171096 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R104 | 0700071 | CARBON FILM 180KOHM+-5% 1/8W |
| R105 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R106 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R107 | 0101759 | METAL FILM 2.2KOHM+-1% 1/8W |
| R108 | 0101766 | CHIP RESISTOR 12KOHM+-1% 1/8W |
| R109 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R110 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R1101 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R1102 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R1103 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1104 | 0700038 | CARBON FILM 680OHM+-5% 1/8W |
| R1105 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1106 | 1109023 | METAL FILM 75 OHM+-50% 1/8W |
| R1107 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R1108 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1109 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R111 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R1110 | 1109023 | METAL FILM 75 OHM+-50% 1/8W |
| R1111 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1112 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1113 | 1109023 | METAL FILM 75 OHM+-50% 1/8W |
| R1114 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1115 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1116 | 0700032 | RESISTOR 220 OHM+-5% 1/8W |
| R1117 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R1118 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R1119 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R112 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R1120 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1121 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1122 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1123 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1124 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1125 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1126 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1127 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R1128 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1129 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R113 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R1130 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1131 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1132 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W |
| R1133 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W |
| R1134 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W |
| R1135 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W |
| R1136 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W |
| R1137 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W |
| R1138 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W |
| R1139 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W |
| R114 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1140 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W |
| R1141 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1142 | 0700031 | CARBON FILM 180OHM+-5% 1/8W |
| R1143 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1144 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1145 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1146 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R115 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R116 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R117 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W |
| R118 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R119 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R120 | 0700031 | CARBON FILM 180OHM+-5% 1/8W |
| R1201 | 0101825 | CARBON FILM 220 OHM+-5% 1/4W |
| R1202 | 0101825 | CARBON FILM 220 OHM+-5% 1/4W |
| R1203 | 0101824 | CARBON FILM 180 OHM+-5% 1/4W |
| R1204 | 0101824 | CARBON FILM 180 OHM+-5% 1/4W |
| R1205 | 0101829 | CARBON FILM 470OHM+-5% 1/4W |
| R1206 | 0101821 | CARBON FILM 100OHM+-5% 1/4W |
| R1207 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R121 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R122 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R123 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R124 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R125 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R126 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R127 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R128 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R129 | 0700059 | CARBON FILM 27KOHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R130 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R184 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1301 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R186 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1302 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R187 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1303 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R188 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1304 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R189 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1305 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R190 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1306 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R191 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1307 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R192 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R1308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R193 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1309 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R194 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R131 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R195 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1311 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R196 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R1313 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R197 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1314 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R198 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1315 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R199 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R132 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R200 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R133 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R201 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R134 | 0700038 | CARBON FILM 680OHM+−5% 1/8W | R202 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R135 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R203 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R136 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R205 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R137 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R207 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R138 | 0700028 | CARBON FILM 120OHM+−5% 1/8W | R208 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R139 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R209 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R140 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R210 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W |
| R141 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R211 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R142 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R212 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R143 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R213 | 0700073 | CARBON FILM 270KOHM+−5% 1/8W |
| R144 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R214 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R145 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R215 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R146 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R216 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R147 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R217 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R148 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W | R218 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R149 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W | R219 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R150 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R220 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R151 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W | R221 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R152 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R222 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R153 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R223 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R154 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R224 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R155 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R225 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R156 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W | R226 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R157 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R227 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R158 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R228 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R159 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R229 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R160 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R230 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R161 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R231 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R162 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R232 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R163 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R233 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R164 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R234 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R165 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R235 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R166 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R236 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R167 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R237 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R168 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R238 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R169 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R239 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R170 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R240 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R171 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R241 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R172 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R242 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R173 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R243 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R174 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R244 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R175 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R245 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R176 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R246 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R177 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R247 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R178 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R249 | 0700032 | RESISTOR 220 OHM+−5% 1/8W |
| R180 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R250 | 0700032 | RESISTOR 220 OHM+−5% 1/8W |
| R181 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R251 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R183 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R252 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R253 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R375 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R254 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R376 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R255 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R377 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R256 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R378 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R257 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R379 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R258 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R380 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R259 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R381 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R260 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R382 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R261 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R383 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R262 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R384 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R263 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R385 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R264 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R386 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R266 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R387 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R301 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R388 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R302 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R389 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R303 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W | R390 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R304 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R391 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R305 | 0700039 | CARBON FILM 820OHM+−5% 1/8W | R392 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R307 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R393 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R394 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R309 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R395 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R310 | 0700039 | CARBON FILM 820OHM+−5% 1/8W | R396 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R311 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R397 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R312 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R398 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R322 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R399 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R323 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R400 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R324 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R401 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R325 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R402 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R332 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R403 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R333 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R404 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R334 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R405 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R335 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R406 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R336 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R407 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R338 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R408 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R339 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R409 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R340 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R410 | 0700068 | CARBON FILM 120KOHM+−5% 1/8W |
| R341 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W | R411 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R342 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R412 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R343 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R413 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R344 | 0700032 | RESISTOR 220 OHM+−5% 1/8W | R416 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R345 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R417 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W |
| R347 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W | R418 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W |
| R348 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W | R419 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R349 | 0101761 | CHIP RESISTOR 2.7KOHM+−1% 1/8W | R420 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R350 | 0700076 | CARBON FILM 470KOHM+−5% 1/8W | R421 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R351 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R422 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R352 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R423 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R353 | 0700075 | CARBON FILM 390KOHM+−5% 1/8W | R424 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R354 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W | R425 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R355 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W | R426 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R356 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R427 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R357 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R428 | 0700033 | CARBON FILM 270OHM+−5% 1/8W |
| R358 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W | R429 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R359 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R430 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R360 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R431 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R361 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R432 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R362 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R433 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R367 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R434 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R368 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R435 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R369 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R436 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R370 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W | R437 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R371 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R438 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R372 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R439 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R373 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R440 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W |
| R374 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W | R441 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R442 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R443 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R444 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R445 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R446 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R447 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R448 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R449 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R450 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W |
| R451 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R452 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W |
| R453 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R454 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R455 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R456 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R457 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R458 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R459 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R460 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R461 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R462 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R463 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R464 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R465 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R466 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R467 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R468 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R469 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R470 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R471 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R472 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R473 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R474 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R475 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R476 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R477 | 0700038 | CARBON FILM 680OHM+-5% 1/8W |
| R478 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R479 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R480 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R481 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R482 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R483 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R484 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R485 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R486 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R487 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R488 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R489 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R490 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R491 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R492 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R493 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R494 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R495 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R496 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R497 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R498 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R499 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R500 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R501 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R502 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R503 | 0700037 | CARBON FILM 560OHM+-5% 1/8W |
| R504 | 0700037 | CARBON FILM 560OHM+-5% 1/8W |
| R505 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R506 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R507 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R508 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R509 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R513 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R514 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W |
| R515 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R516 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R517 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R518 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R519 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R520 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R521 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R522 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R523 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R525 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R526 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R527 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R801 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R802 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R803 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R804 | 0104116 | CHIP RESISTOR 39KOHM 1/10W |
| R805 | 0104111 | METAL FILM 10KOHM+-10% 1/10W |
| R806 | 0104123 | CHIP RESISTOR 8.2KOHM+-1% 1/10W |
| R807 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R808 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R809 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R810 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R811 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R812 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R813 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R814 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R818 | 0103879 | CHIP RESISTOR 1MOHM+-5% 0.1W |
| R819 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R820 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R821 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R822 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R823 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R824 | 0103848 | CHIP RESISTOR 2.7KOHM+-5% 0.1W |
| R825 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R826 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R827 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R828 | 0103855 | CHIP RESISTOR 10KOHM+-5% 0.1W |
| R829 | 0103841 | CHIP RESISTOR 680 OHM+-5% 0.1W |
| R830 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R831 | 0103851 | CHIP RESISTOR 4.7KOHM+-5% 0.1W |
| R832 | 0103849 | CHIP RESISTOR 3.3KOHM+-5% 0.1W |
| R833 | 0103851 | CHIP RESISTOR 4.7KOHM+-5% 0.1W |
| R901 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R902 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R903 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R904 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R905 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R906 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R907 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R908 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R909 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| | | **SEMI-CONDUCTORS** |
| D1001 | 5339141 | DIODE 1SS270 |
| D1002 | 5339141 | DIODE 1SS270 |
| D1003 | 5339141 | DIODE 1SS270 |
| D1004 | 5339141 | DIODE 1SS270 |
| D1005 | 5339141 | DIODE 1SS270 |
| D101 | 5339141 | DIODE 1SS270 |
| D1011 | 5331031 | DIODE 1SV68-01 |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D1012 | 5339141 | DIODE 1SS270 |
| D1013 | 5339141 | DIODE 1SS270 |
| D1014 | 5339141 | DIODE 1SS270 |
| D102 | 5339141 | DIODE 1SS270 |
| D103 | 5339141 | DIODE 1SS270 |
| D104 | 5339141 | DIODE 1SS270 |
| D105 | 5339141 | DIODE 1SS270 |
| D106 | 5339141 | DIODE 1SS270 |
| D107 | 5339141 | DIODE 1SS270 |
| D108 | 5339141 | DIODE 1SS270 |
| D109 | 5339141 | DIODE 1SS270 |
| D1101 | 5339141 | DIODE 1SS270 |
| D1102 | 5339141 | DIODE 1SS270 |
| D1103 | 5339141 | DIODE 1SS270 |
| D1104 | 5339141 | DIODE 1SS270 |
| D1105 | 5339141 | DIODE 1SS270 |
| D1106 | 5339141 | DIODE 1SS270 |
| D1107 | 5339141 | DIODE 1SS270 |
| D112 | 5339231 | DIODE 1SR35−100A |
| D113 | 5339231 | DIODE 1SR35−100A |
| D114 | 5339141 | DIODE 1SS270 |
| D115 | 5339141 | DIODE 1SS270 |
| D116 | 5339141 | DIODE 1SS270 |
| D117 | 5339141 | DIODE 1SS270 |
| D118 | 5339141 | DIODE 1SS270 |
| D119 | 5339141 | DIODE 1SS270 |
| D120 | 5339141 | DIODE 1SS270 |
| D1201 | 5339141 | DIODE 1SS270 |
| D121 | 5339141 | DIODE 1SS270 |
| D122 | 5339141 | DIODE 1SS270 |
| D123 | 5339141 | DIODE 1SS270 |
| D124 | 5339141 | DIODE 1SS270 |
| D125 | 5339141 | DIODE 1SS270 |
| D126 | 5339141 | DIODE 1SS270 |
| D127 | 5339141 | DIODE 1SS270 |
| D128 | 5339141 | DIODE 1SS270 |
| D130 | 5339141 | DIODE 1SS270 |
| D131 | 5339141 | DIODE 1SS270 |
| D132 | 5339141 | DIODE 1SS270 |
| D133 | 5339141 | DIODE 1SS270 |
| D134 | 5339141 | DIODE 1SS270 |
| D135 | 5339141 | DIODE 1SS270 |
| D136 | 5339141 | DIODE 1SS270 |
| D137 | 5339141 | DIODE 1SS270 |
| D138 | 5339141 | DIODE 1SS270 |
| D139 | 5339141 | DIODE 1SS270 |
| D140 | 5339141 | DIODE 1SS270 |
| D141 | 5339141 | DIODE 1SS270 |
| D142 | 5339141 | DIODE 1SS270 |
| D143 | 5339141 | DIODE 1SS270 |
| D144 | 5339141 | DIODE 1SS270 |
| D145 | 5339141 | DIODE 1SS270 |
| D146 | 5339141 | DIODE 1SS270 |
| D147 | 5339141 | DIODE 1SS270 |
| D148 | 5339141 | DIODE 1SS270 |
| D181 | 5339141 | DIODE 1SS270 |
| D182 | 5339141 | DIODE 1SS270 |
| D183 | 5339141 | DIODE 1SS270 |
| D184 | 5339141 | DIODE 1SS270 |
| D185 | 5339141 | DIODE 1SS270 |
| D186 | 5339141 | DIODE 1SS270 |
| D187 | 5339141 | DIODE 1SS270 |
| D188 | 5339141 | DIODE 1SS270 |
| D189 | 5339141 | DIODE 1SS270 |
| D190 | 5339141 | DIODE 1SS270 |
| D191 | 5339141 | DIODE 1SS270 |
| D192 | 5339141 | DIODE 1SS270 |
| D193 | 5339141 | DIODE 1SS270 |
| D194 | 5339141 | DIODE 1SS270 |
| D195 | 5339141 | DIODE 1SS270 |
| D196 | 5339141 | DIODE 1SS270 |
| D197 | 5339141 | DIODE 1SS270 |
| D198 | 5339141 | DIODE 1SS270 |
| D199 | 5339141 | DIODE 1SS270 |
| D200 | 5339141 | DIODE 1SS270 |
| D201 | 5339141 | DIODE 1SS270 |
| D202 | 5339141 | DIODE 1SS270 |
| D203 | 5339141 | DIODE 1SS270 |
| D204 | 5339141 | DIODE 1SS270 |
| D205 | 5339141 | DIODE 1SS270 |
| D206 | 5339141 | DIODE 1SS270 |
| D207 | 5339141 | DIODE 1SS270 |
| D208 | 5339141 | DIODE 1SS270 |
| D209 | 5339231 | DIODE 1SR35−100A |
| D210 | 5339141 | DIODE 1SS270 |
| D211 | 5339141 | DIODE 1SS270 |
| D213 | 5339141 | DIODE 1SS270 |
| D214 | 5339141 | DIODE 1SS270 |
| D215 | 5339141 | DIODE 1SS270 |
| D301 | 5339141 | DIODE 1SS270 |
| D302 | 5339141 | DIODE 1SS270 |
| D303 | 5339141 | DIODE 1SS270 |
| D304 | 5339141 | DIODE 1SS270 |
| D305 | 5332791 | DIODE 1SS270 |
| D802 | 5328321 | DIODE MA151K (MH) |
| D803 | 5328321 | DIODE MA151K (MH) |
| D804 | 5328321 | DIODE MA151K (MH) |
| D805 | 5328321 | DIODE MA151K (MH) |
| D806 | 5328321 | DIODE MA151K (MH) |
| D807 | 5328321 | DIODE MA151K (MH) |
| D901 | 5339141 | DIODE 1SS270 |
| D902 | 5339141 | DIODE 1SS270 |
| D903 | 5339141 | DIODE 1SS270 |
| D904 | 5339141 | DIODE 1SS270 |
| D905 | 5339141 | DIODE 1SS270 |
| D906 | 5339141 | DIODE 1SS270 |
| D907 | 5339141 | DIODE 1SS270 |
| D908 | 5339141 | DIODE 1SS270 |
| D909 | 5339141 | DIODE 1SS270 |
| D910 | 5339141 | DIODE 1SS270 |
| IC1001 | 1361681 | IC HD44007A |
| IC1002 | 5301411 | IC NJU74HC04D |
| IC1003 | 5301611 | IC NJU74HC157D |
| IC101 | 1359991 | IC MB635120 |
| IC102 | 1342288 | IC M50558−112SP |
| IC103 | 1367401 | IC BR9021 |
| IC104 | 5301591 | IC SN74HC32N |
| IC105 | 5369911 | IC M54548L |
| IC106 | 5369171 | IC M54543L |
| IC107 | 5365673 | IC NJM2901N |
| IC108 | 5365673 | IC NJM2901N |
| IC109 | 1345791 | IC HA17807 |
| IC110 | 5366851 | IC HD74LS221P |
| IC1101 | 1360271 | IC HA118104 |
| IC1102 | 1360271 | IC HA118104 |
| IC1103 | 1360271 | IC HA118104 |
| IC111 | 5359921 | IC HD74LS74P |
| IC112 | 1343731 | IC HD74LS14P |
| IC113 | 1343721 | IC HD7406P |
| IC114 | 1343602 | IC SN74ALS574BN |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| IC115 | 1343931 | IC HD74LS244P |
| IC116 | 1340751 | IC HD74LS641P |
| IC117 | 1342242 | IC UPD4711A |
| IC1201 | 1362352 | IC NJM7809FA |
| IC1202 | 1360351 | IC NJM7805FA |
| IC1203 | 1360351 | IC NJM7805FA |
| IC1204 | 1360351 | IC NJM7805FA |
| IC1205 | 1362352 | IC NJM7809FA |
| IC301 | 1360271 | IC HA118104 |
| IC302 | 5300781 | IC M51489L |
| IC303 | 1345841 | IC NJM2233BL |
| IC304 | 1340731 | IC V7021 |
| IC305 | 1360271 | IC HA118104 |
| IC306 | 1345921 | IC UPD6336C |
| IC307 | 1362256 | IC NJM2904L |
| IC308 | 1361771 | IC M5216L |
| IC309 | 1362256 | IC NJM2904L |
| IC310 | 1362256 | IC NJM2904L |
| IC311 | 1345841 | IC NJM2233BL |
| IC312 | 1341661 | IC LM393 |
| IC313 | 5301411 | IC NJU74HC04D |
| IC314 | 1341661 | IC LM393 |
| IC315 | 5367091 | IC HA11423 |
| IC316 | 5301641 | IC UPD74HC221AC |
| IC317 | 1340681 | IC V7040 |
| IC318 | 1359451 | IC CXA1211M |
| IC319 | 1359451 | IC CXA1211M |
| IC801 | 1354352 | IC CXD1175AM |
| IC802 | 1354352 | IC CXD1175AM |
| IC803 | 1354352 | IC CXD1175AM |
| IC804 | 1340741 | IC CXD1178Q |
| IC808 | 1343541 | IC SN74S124N |
| IC805 | 1365906 | IC HD 6473378F10 VY-MXF04 |
| IC806 | 1365907 | IC HD 6473378F10 VY-MXS06A |
| IC807 | 1365772 | IC MB635130 |
| IC808 | 1343541 | IC SN74S124N |
| IC809 | 1359153 | IC HM514800LJP−8Z |
| IC810 | 1359153 | IC HM514800LJP−8Z |
| IC811 | 1359153 | IC HM514800LJP−8Z |
| IC812 | 1359153 | IC HM514800LJP−8Z |
| IC813 | 1359153 | IC HM514800LJP−8Z |
| IC814 | 1359153 | IC HM514800LJP−8Z |
| IC815 | 1359153 | IC HM514800LJP−8Z |
| IC816 | 1359153 | IC HM514800LJP−8Z |
| IC817 | 1359153 | IC HM514800LJP−8Z |
| IC818 | 1359153 | IC HM514800LJP−8Z |
| IC819 | 1359153 | IC HM514800LJP−8Z |
| IC820 | 1359153 | IC HM514800LJP−8Z |
| IC821 | 5366542 | IC PST520C2 |
| IC822 | 5364601 | IC M5278L05 |
| IC823 | 1365411 | IC HD74HC08FP |
| IC824 | 1365411 | IC HD74HC08FP |
| IC825 | 1365841 | IC HD74HC74FP |
| Q1001 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1002 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1003 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1004 | 5327071 | TRANSISTOR DTC124ES |
| Q1005 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1006 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1007 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q101 | 1320004 | TRANSISTOR 2SA854SQR |
| Q102 | 1320004 | TRANSISTOR 2SA854SQR |
| Q103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q105 | 5327076 | TRANSISTOR XDA144ES |
| Q106 | 5327071 | TRANSISTOR DTC124ES |
| Q107 | 5327252 | TRANSISTOR DTC114YS |
| Q108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q110 | 5324631 | TRANSISTOR 2SA1390C |
| Q1101 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1102 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1105 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1106 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1107 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q111 | 5324631 | TRANSISTOR 2SA1390C |
| Q1110 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q112 | 5324631 | TRANSISTOR 2SA1390C |
| Q113 | 5324631 | TRANSISTOR 2SA1390C |
| Q114 | 5327071 | TRANSISTOR DTC124ES |
| Q115 | 5327071 | TRANSISTOR DTC124ES |
| Q116 | 5327071 | TRANSISTOR DTC124ES |
| Q117 | 5327072 | TRANSISTER DTA124ES |
| Q118 | 5327071 | TRANSISTOR DTC124ES |
| Q119 | 5327072 | TRANSISTER DTA124ES |
| Q120 | 5327071 | TRANSISTOR DTC124ES |
| Q1201 | 1321321 | TRANSISTOR 2SB1187(E/F) |
| Q1202 | 5327021 | TRANSISTOR 2SA844CD |
| Q1203 | 5327071 | TRANSISTOR DTC124ES |
| Q121 | 5327072 | TRANSISTER DTA124ES |
| Q122 | 5327071 | TRANSISTOR DTC124ES |
| Q123 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q124 | 5327071 | TRANSISTOR DTC124ES |
| Q125 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q126 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q127 | 5324111 | TRASISTOR 2SD1209 |
| Q128 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1303 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q306 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q309 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q310 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q311 | 5327071 | TRANSISTOR DTC124ES |
| Q312 | 1320004 | TRANSISTOR 2SA854SQR |
| Q313 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q314 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q320 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q321 | 1320004 | TRANSISTOR 2SA854SQR |
| Q322 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q323 | 1320004 | TRANSISTOR 2SA854SQR |
| Q324 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q325 | 1320004 | TRANSISTOR 2SA854SQR |
| Q326 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q327 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q328 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q329 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q330 | 1320004 | TRANSISTOR 2SA854SQR |
| Q331 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q332 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q333 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q334 | 1320004 | TRANSISTOR 2SA854SQR |
| Q335 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q336 | 5327061 | TRANSISTOR 2SC1740S−ST |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q337 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q338 | 1320004 | TRANSISTOR 2SA854SQR |
| Q339 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q340 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q341 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q342 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q343 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q344 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q345 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q346 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q347 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q348 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q349 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q350 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q351 | 1320004 | TRANSISTOR 2SA854SQR |
| Q352 | 1320004 | TRANSISTOR 2SA854SQR |
| Q353 | 1320004 | TRANSISTOR 2SA854SQR |
| Q354 | 1320004 | TRANSISTOR 2SA854SQR |
| Q358 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q359 | 1320004 | TRANSISTOR 2SA854SQR |
| Q801 | 5328962 | TRANSISTOR 2SA1037K |
| Q802 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q803 | 5328962 | TRANSISTOR 2SA1037K |
| Q804 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q901 | 5327071 | TRANSISTOR DTC124ES |
| Q902 | 5327071 | TRANSISTOR DTC124ES |
| Q903 | 5327071 | TRANSISTOR DTC124ES |
| ZD101 | 5339251 | DIODE HZS2−C3 |
| ZD103 | 5339265 | DIODE HZS9−B3 |
| ZD104 | 5339251 | DIODE HZS2−C3 |
| ZD141 | 5339297 | DIODE HZS5C3 |
| ZD301 | 5339481 | DIODE HZS2B3 |
| ZD304 | 5339257 | DIODE HZS4 |
| ZD306 | 5339291 | DIODE HZS3B1 |
|  |  | **COILS** |
| LT301 | 5124106 | COIL |
| L101 | 0770057 | CHOKE COIL 100UH+−5% |
| L102 | 0770046 | CHOKE COIL 15UH+−5% |
| L1101 | 0770044 | CHOKE COIL 10UH+−5% |
| L1102 | 0770044 | CHOKE COIL 10UH+−5% |
| L141 | 5159147 | CHOKE COIL 33UH |
| L301 | 0770044 | CHOKE COIL 10UH+−5% |
| L302 | 0770057 | CHOKE COIL 100UH+−5% |
| L303 | 0770066 | CHOKE COIL 470UH+−5% |
| L304 | 0770056 | CHOKE COIL 82UH |
| L305 | 0770044 | CHOKE COIL 10UH+−5% |
| L306 | 0770062 | CHOKE COIL 220UH+−5% |
| L307 | 0770057 | CHOKE COIL 100UH+−5% |
| L309 | 0770057 | CHOKE COIL 100UH+−5% |
| L801 | 0773001 | CHOCE COIL 10UH+−10% |
| L802 | 0773001 | CHOCE COIL 10UH+−10% |
| L803 | 0773001 | CHOCE COIL 10UH+−10% |
| L804 | 0773001 | CHOCE COIL 10UH+−10% |
| L805 | 0773001 | CHOCE COIL 10UH+−10% |
|  |  | **CRYSTALS** |
| XL1001 | 5778222 | CRYSTAL |
| XL301 | 5784551 | OSCILLATOR |
| XL801 | 1930011 | CRYSTAL |
| XL802 | 5778842 | OSCILLATOR |
| XL803 | 5778842 | OSCILLATOR |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
|  |  | **MISCELLANEOUS** |
| BC101 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC102 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC103 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC104 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC105 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC106 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC107 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC108 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC109 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC110 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1102 | 0235362 | LINE FILTER |
| BC1103 | 0235362 | LINE FILTER |
| BC1104 | 0235362 | LINE FILTER |
| BC1105 | 0235362 | LINE FILTER |
| BC1106 | 0235362 | LINE FILTER |
| BC1107 | 0235362 | LINE FILTER |
| BC1108 | 0235362 | LINE FILTER |
| BC1109 | 0235362 | LINE FILTER |
| BC111 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1110 | 0235362 | LINE FILTER |
| BC112 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC113 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC114 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC115 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC116 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC117 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC118 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC119 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC141 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC142 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC143 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC144 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC303 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC304 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC801 | 0235364 | CERAMIC DISC 100PF+−20% 100V |
| BL101 | 5272378 | LC FILTER |
| BL102 | 5272378 | LC FILTER |
| BL103 | 5272378 | LC FILTER |
| BL104 | 5272378 | LC FILTER |
| BL105 | 5272378 | LC FILTER |
| BL106 | 5272378 | LC FILTER |
| BL107 | 5272378 | LC FILTER |
| BL108 | 5272378 | LC FILTER |
| BL109 | 5272378 | LC FILTER |
| BL110 | 5272378 | LC FILTER |
| BL111 | 5272378 | LC FILTER |
| BL112 | 5272378 | LC FILTER |
| BL113 | 5272378 | LC FILTER |
| BL114 | 5272378 | LC FILTER |
| BU1001 | 5409273 | BUZZER |
| CP1301 | 5165165 | FILTER |
| CP1302 | 5163082 | BAND PASS FILTER |
| CP307 | 5163463 | LOW PASS FILTER |
| CP308 | 5163463 | LOW PASS FILTER |
| CP309 | 5163463 | LOW PASS FILTER |
| CP310 | 5165165 | FILTER |
| CP311 | 5165165 | FILTER |
| CP312 | 5165165 | FILTER |
| DL1301 | 5165161 | DELAY LINE |
| DL1302 | 5165161 | DELAY LINE |
| DL305 | 5786131 | DELAY LINE |
| DL306 | 5165341 | DELAY LINE |
| DL307 | 5165213 | DELAY LINE |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| DL308 | 5163483 | DELAY LINE |
| GL001 | 5382391 | DIDOE GL−471 |
| GPS01 | 5382062 | DIODE GP1S06E |
| GPS02 | 5382351 | DIDOE GP2S05J |
| GPS03 | 5333391 | TRANSISTOR NJL5161K |
| GPS04 | 5333391 | TRANSISTOR NJL5161K |
| GPS05 | 5382382 | DIODE GP2S07B |
| GPS06 | 5382382 | DIODE GP2S07B |
| GPS07 | 5382382 | DIODE GP2S07B |
| GPS08 | 5382382 | DIODE GP2S07B |
| GPS09 | 5382351 | DIDOE GP2S05J |
| GPS10 | 5382053 | IC GP2S04B |
| J101 | 5695641 | PLUG |
| J102 | 5694934 | JACK |
| J103 | 5694862 | JACK |
| J301 | 5655091 | PLUG |
| J302 | 5655091 | PLUG |
| LD101 | 5381668 | LED SLH34MT3 |
| LD102 | 5381668 | LED SLH34MT3 |
| LD103 | 5381668 | LED SLH34MT3 |
| LD104 | 5381668 | LED SLH34MT3 |
| LD901 | 5381667 | LED SLH34MT3 |
| LD902 | 5381667 | LED SLH34MT3 |
| LD903 | 5381667 | LED SLH34MT3 |
| MSW01 | 5610811 | SWITCH, MODE |
| PG110 | 5661814 | MINI PLUG |
| PG123 | 5666164 | PLUG |
| PG124 | 5666162 | MINI PLUG |
| PG1318 | 5669353 | RF CONNECTOR |
| PG811 | 5669351 | CONNECTOR |
| PG812 | 5669352 | CONNECTOR |
| PG813 | 5669351 | CONNECTOR |
| PG814 | 5669351 | CONNECTOR |
| PG910 | 5661824 | MINI PLUG |
| SWP02 | 5633693 | SWITCH |
| S101 | 5635113 | SWITCH |
| S102 | 5635113 | SWITCH |
| S103 | 5635113 | SWITCH |
| S104 | 5635113 | SWITCH |
| S105 | 5635113 | SWITCH |
| S106 | 5635113 | SWITCH |
| S1101 | 5621784 | SWITCH |
| S1102 | 5621463 | SWITCH |
| S1103 | 5610931 | SWITCH |
| S1104 | 5621784 | SWITCH |
| S901 | 5634921 | SWITCH |
| S902 | 5635061 | SWITCH |
| S903 | 5635061 | SWITCH |
| S904 | 5635061 | SWITCH |
| S905 | 5635061 | SWITCH |
| S906 | 5635061 | SWITCH |
| S907 | 5635061 | SWITCH |
| S907 | 5635231 | SWITCH |
| S908 | 5635061 | SWITCH |
| TPS01 | 1321602 | TRANSISTOR TPS605 |

## 6. MECHANICAL PARTS LIST 〔VY-300 (E)〕

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **FOR FINAL ASSEMBLY** |
| 101 | 6006718 | COVER, TOP |
| 102 | 4720189 | PANEL, FRONT |
| 103 | 6487315 | COVER, INK |
| 104 | 4721393 | COVER, CONTROL |
| 105 | 6484653 | COVER, PAPER |
| 106 | 4890483 | BRACKET |
| 107 | 6009442 | COVER, REAR (L) |
| 108 | 6009456 | COVER, REAR (R) |
| 110 | 6893561 | LATCH |
| 112 | 6811721 | BRACKET |
| 115 | 6809961 | BRACKET, PWB (A) |
| 116 | 6809982 | HOLDER, CBA |
| 117 | 6813761 | BRACKET |
| 118 | 6528221 | PLATE, EARTH |
| 119 | 4899941 | BRACKET |
| 120 | 6338271 | SHAFT |
| 121 | 5274185 | SWITCHING REGULATOR |
| 126 | 6552751 | SPRING |
| 127 | 4520651 | HOLDER |
| 128 | 4520652 | HOLDER |
| 129 | 7230901 | E RING FOR SPRING MOUNTING |
| 130 | 6072702 | KNOB |
| 131 | 6324432 | PREVENTION SPRING |
| 132 | 6813891 | DAMPER |
| 134 | 6438001 | LEG |
| 136 | 6006721 | COVER, BOTTOM |
| 137 | 6808681 | FELT, LEG |
| 138 | 4890391 | BRACKET |
| 139 | 6813812 | LEVER |
| 140 | 6813821 | LEVER |
| 141 | 7709091 | WASHER |
| 142 | 6303471 | SPRING |
| 151 | 4950351 | PROTECTOR |
| 201 | 6415936 | REEL TABLE (T) |
| 202 | 6822551 | ARM |
| 203 | 7778859 | POLYSLIDER WASHER |
| 204 | 4583011 | MOTOR |
| 205 | 6556461 | SPRING |
| 206 | 6347961 | WORM |
| 207 | 6440112 | GEAR |
| 208 | 6806721 | BASE |
| 209 | 6564334 | DRUM |
| 210 | 5579341 | MOTOR, LOADING |
| 211 | 4512211 | HOLDER, SHAFT |
| 212 | 6416482 | REEL TABLE (S) |
| 213 | 7442062 | BRACKET |
| 215 | 6527601 | SPRING |
| 216 | 6901041 | REEL CHASSIS |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 217 | 7467223 | MOTOR,LOADING |
| 218 | 6807022 | GUIDE |
| 220 | 6437381 | GEAR |
| 221 | 7873811 | GEAR ASSY |
| 222 | 6523452 | SPRING |
| 223 | 6806702 | ARM |
| 224 | 6820271 | ARM |
| 225 | 6543131 | SPRING |
| 226 | 6437412 | GEAR |
| 227 | 6556482 | SPRING |
| 228 | 6556481 | SPRING |
| 229 | 7786112 | POL SLIDER WASHER |
| 230 | 7474841 | PLATE |
| 231 | 4583081 | SLIDER |
| 232 | 6523915 | SPRING |
| 233 | 4512201 | HOLDER,SHAFT |
| 234 | 7786113 | POLYESTER SLIDER WASHER |
| 235 | 6437451 | GEAR |
| 236 | 6347983 | GEAR |
| 237 | 7469181 | PLATE |
| 238 | 6552311 | SPRING |
| 239 | 7467202 | ARM |
| 240 | 6437401 | GEAR |
| 241 | 6347971 | GEAR |
| 242 | 7789311 | WASHER |
| 243 | 6378321 | PLATE |
| 244 | 7786119 | POLISLIDER WASHER |
| 246 | 7473042 | ARM |
| 247 | 7442081 | BRACKET |
| 248 | 5610811 | MODE SWITCH |
| 250 | 7138886 | CHASSIS(L) |
| 251 | 7139231 | SHASSIS |
| 252 | 6807051 | HOLDER |
| 256 | 5443541 | THERMAL HEAD |
| 257 | 6558163 | SPRING |
| 258 | 6806841 | GUIDE |
| 259 | 6558162 | SPRING |
| 260 | 1620301 | PWB ASSY INK SENSOR(IS) |
| 268 | 6807002 | GUIDE |
| 269 | 6807013 | GUIDE |
| 271 | 1605962 | PWB ASSY PAPER SENSOR 1 |
| 282 | 1710031 | FAN |
| 301 | 7132708 | PAPER SUPPLY MECHANISM ASSY |
| 302 | 6564274 | ROLLER |
| 303 | 6564292 | ROLLER |
| 304 | 6300081 | SPRING |
| 305 | 4512121 | HOLDER |
| 306 | 6357692 | BELT |
| 307 | 6806742 | ARM |
| 308 | 6806751 | ARM |
| 309 | 6552041 | SPRING |
| 310 | 1605976 | PWB ASSY SWITCH／PAPER |
| 311 | 7787578 | WASHER |
| 312 | 6440122 | GEAR |
| 313 | 6820432 | HOLDER |
| 314 | 7467213 | ARM |
| 315 | 6564362 | ROLLER |
| 316 | 6437361 | GEAR |
| 319 | 6564341 | ROLLER |
| 320 | 4583041 | TRAY |
| 321 | 6529991 | SPRING |
| 322 | 6424441 | ROLLER |
| 323 | 6806872 | TRAY |
| 324 | 6806761 | ARM |
| 325 | 6806771 | ARM |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 326 | 6806733 | LEVER |
| 327 | 4583091 | PLATE |
| 328 | 6556491 | SPRING |
| 329 | 6527591 | SPRING |
| 336 | 7778859 | POLYSLIDER WASHER |
| 337 | 4583061 | ARM |
| 338 | 4583051 | ARM |
| 339 | 4583071 | ARM |
| 340 | 6424451 | ROLLER |
| 341 | 6556302 | SPRING |
| 342 | 6300844 | SPRING |
| 343 | 4712961 | TRAY |
| 901 | 7784114 | SCREW(3X6) |
| 902 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 903 | 8744406 | BINDING SCREW—3MMD×6MM |
| 904 | 8691410 | SCREW |
| 907 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 908 | 87411063 | SCREW (2X6) |
| 909 | 8744406 | BINDING SCREW – 3MMD X 6MM |
| 951 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 952 | 8741412 | SCREW (B3X12) |
| 953 | 8741108 | SCREW (2X8) |
| 954 | 7707531 | WASHER |
| 955 | 7774942 | E RING |
| 956 | 8741403 | BIND SCREW—3MMDX3MM |
| 957 | 8691405 | SCREW(3X5) |
| 958 | 87414303 | BIND SCREW—3MMDX30MM |
| 959 | 8812114 | WASHER – 3MMD SMALL |
| 960 | 8813114 | SPRING WASHER—3MMD |
| 961 | 0711304 | PAN HEAD SCREW—2.6MMD×4MM |

**FOR ACCESSARIES**

| | | |
|---|---|---|
| 802 | 5617196 | REMOTE HAND SET |
| 803 | 5852591 | CORD,POWER |

## 7. MECHANICAL PARTS LIST (VY-170(A))

* Correction of mechanical parts list

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| | | **FOR FINAL ASSEMBLY** | | | **FOR FINAL ASSEMBLY** |
| | | **— ADDED —** | | | **— CHANGED —** |
| 110 | 6893561 | LATCH | 226 | 6437412 | GEAR |
| 151 | 4950351 | PROTECTOR | 301 | 7132708 | PAPER SUPPLY MECHANISM ANNY |
| 216 | 6901041 | REEL CHASSIS | 315 | 6564362 | ROLLER |
| 221 | 7873811 | GEAR ASSY | | | **— DELETED —** |
| 223 | 6806702 | ARM | | | |
| 244 | 7786119 | POLISLIDER WASHER | 335 | 1608463 | PWB ASSY DOOR SWITCH |
| 269 | 6807013 | GUIDE | | | |
| 282 | 1710031 | FAN | | | |
| 307 | 6806742 | ARM | | | |
| 308 | 6806751 | ARM | | | |
| 311 | 7787578 | WASHER | | | |
| 314 | 7467213 | ARM | | | |
| 903 | 8744406 | BINDDING SCREW-3MMD×6MM | | | |
| 961 | 0711304 | PAN CEAD SCREW-2.6MMD×4MM | | | |

* Change of electrical parts (IC 706)

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| | | **SEMI-CONDUCTORS** | | | |
| | | **— CHANGED —** | | | |
| IC706 | 1365903 | IC HD6473378F10VY-MXS03A | | | |

# APPENDIX

## 1. MICROPROCESSOR PIN FUNCTION TABLE

### INTERFACE MICROPROCESSOR (HD6473378F10/HD6473308F10) PIN FUNCTIONS

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 1 | I | Lo | RES | Initializes the microprocessor when power is turned on. |
| 2 | | PULSE | XTAL | Generate 20MHz clock pulses for the microprocessor. |
| 3 | | PULSE | EXTAL | |
| 4 | I | Hi | MD 1 | Mode setting (connected to 5V power supply) |
| 5 | I | Lo | MD 0 | Ground |
| 6 | I | Lo | NMI | Connected to 5V power supply. |
| 7 | I | Lo | STBY | Connected to 5V power supply. |
| 8 | | | Vcc | 5V power supply |
| 9 | I | Lo | CTS | CTS of RS232C I/F ✻1 |
| 10 | I | – | RXD | RXD of RS232C I/F ✻1 |
| 11 | O | – | TXD | TXD of RS232C I/F ✻1 |
| 12 | | | Vss | Ground |
| 13 | | | | Connected to 5V power supply. |
| 16 | O | Lo | WR | Write signal for the memory gate array. |
| 14 | | | | Not connected. |
| 15 | | | | Not connected. |
| 17 | O | Lo | RD | Read signal for the memory gate array. |
| 18 | I | Hi | IFROK | When this is "Hi", the I/F microprocessor can use the memory gate array. |
| 19 | I | Hi | BUSY | When this is "Hi", the memory gate array is accessing to the DRAM. |
| 20 | I | Hi | C. BUSY | BUSY signal of parallel data I/F. ✻1 |
| 21 | | | | Not connected. |
| 22 | O | Lo | $\overline{\text{CACK}}$ | $\overline{\text{ACK}}$ signal of parallel data I/F. ✻1 |
| 23 | O | Hi | $\overline{\text{CERR}}$ | $\overline{\text{ERROR}}$ signal of parallel data I/F. ✻1 |
| 24 | O | Lo | $\overline{\text{CPE}}$ | PE signal of parallel data I/F. ✻1 |
| 25 | O | Lo | $\overline{\text{CIEN}}$ | Data bus buffer input enable signal of parallel data I/F. ✻1 |
| 26 | O | Lo | $\overline{\text{COEN}}$ | Data bus buffer output enable signal of parallel data I/F. ✻1 |
| 27 | I | Lo | $\overline{\text{CINIT}}$ | $\overline{\text{CINIT}}$ signal of parallel data I/F. ✻1 |
| 28 | O | Lo | $\overline{\text{BSYST}}$ | BUSY control signal of parallel data I/F. Normally, "Hi". "Lo" when reset. ✻1 |
| 29 | | | AVCC | 5V power supply of analog circuits in the microprocessor. |
| 30 | | | | Pulled up with 1 kΩ. |
| 31 | | | | Pulled up with 1 kΩ. |
| 32 | | | | Pulled up with 1 kΩ. |
| 33 | | | | Pulled up with 1 kΩ. |
| 34 | | | | Pulled up with 1 kΩ. |
| 35 | | | | Pulled up with 1 kΩ. |
| 36 | | | | Pulled up with 1 kΩ. |
| 37 | | | | Pulled up with 1 kΩ. |
| 38 | | | AVSS | 5V power supply of analog circuits in the microprocessor. |
| 39 | I/O | – | CD0 | Input/output data for parallel data I/F. ✻1 |
| 40 | I/O | – | CD1 | Input/output data for parallel data I/F. ✻1 |
| 41 | I/O | – | CD2 | Input/output data for parallel data I/F. ✻1 |
| 42 | I/O | – | CD3 | Input/output data for parallel data I/F. ✻1 |
| 43 | I/O | – | CD4 | Input/output data for parallel data I/F. ✻1 |
| 44 | I/O | – | CD5 | Input/output data for parallel data I/F. ✻1 |
| 45 | I/O | – | CD6 | Input/output data for parallel data I/F. ✻1 |
| 46 | I/O | – | CD7 | Input/output data for parallel data I/F. ✻1 |
| 47 | | | VCC | Connected to 5V power supply. |
| 48 | | | | Not connected. |
| 49 | | | | Not connected. |
| 50 | | | | Not connected. |
| 51 | | | | Not connected. |
| 52 | | | | Not connected. |
| 53 | | | | Not connected. |
| 54 | | | | Not connected. |
| 55 | | | | Not connected. |

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 56 | | | VSS | Connected to 5V power supply. |
| 57 | O | – | OPA7 | Address for memory gate array. |
| 58 | O | – | OPA6 | Address for memory gate array. |
| 59 | O | – | OPA5 | Address for memory gate array. |
| 60 | O | – | OPA4 | Address for memory gate array. |
| 61 | O | – | OPA3 | Address for memory gate array. |
| 62 | O | – | OPA2 | Address for memory gate array. |
| 63 | O | – | OPA1 | Address for memory gate array. |
| 64 | O | – | OPA0 | Address for memory gate array. |
| 65 | O | – | D0 | Address for memory gate array. |
| 66 | O | – | D1 | Address for memory gate array. |
| 67 | O | – | D2 | Address for memory gate array. |
| 68 | O | – | D3 | Address for memory gate array. |
| 69 | O | – | D4 | Address for memory gate array. |
| 70 | O | – | D5 | Address for memory gate array. |
| 71 | O | – | D6 | Address for memory gate array. |
| 72 | O | – | D7 | Address for memory gate array. |
| 73 | | | VSS | Ground |
| 74 | | | | Not connected. |
| 75 | | | | Not connected. |
| 76 | O | Lo | $\overline{\text{IFREQ}}$ | When this is "Lo", the I/F microprocessor is using the memory gate array. |
| 77 | O | Lo | RTS | RTS of RS232C I/F. |
| 78 | I | – | IFSCK | Serial communications clock pulses from system control microprocessor. |
| 79 | O | – | IFDATA | Serial data to system control microprocessor. |
| 80 | I | – | S. DATA | Serial data from system control microprocessor. |

※1: "Hi" in the VY-170.

**HITACHI**

VY-170 (A), (E)
VY-300 (A), (E)

TK No. 3728E TOKAI Consumer Electronics Division

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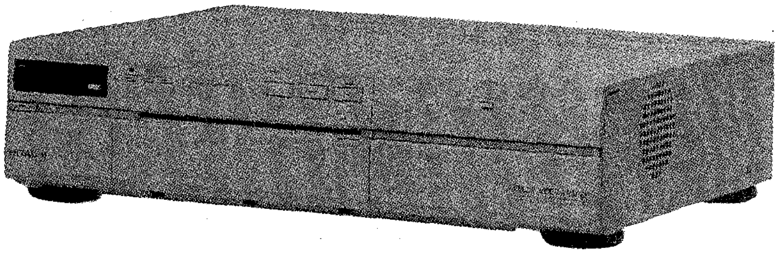
Printed in Japan (AP)

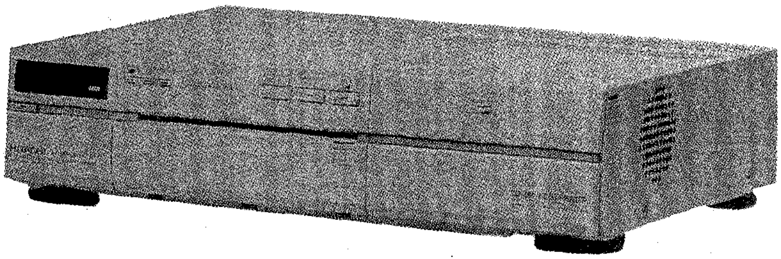
**HITACHI**

# SERVICE MANUAL

TK | No.3693E

# VY-170 (A),(E)
# VY-300 (A),(E)


◀VY-170

VY-300 ▶


SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

## COLOR VIDEO PRINTER

August 1992 TOKAI Consumer Electronics Division

## SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

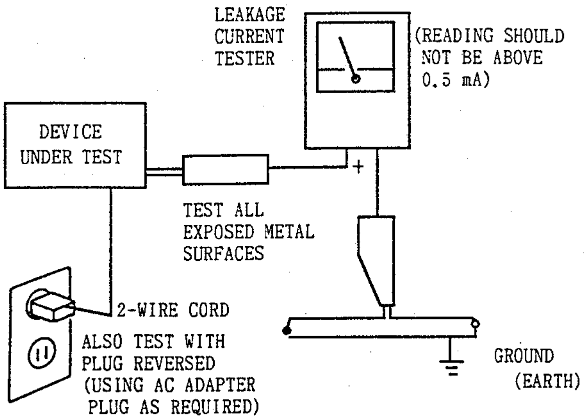
1. When replacing a chassis in the instrument, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment covers/shields, isolation resistors/capacitors, etc.
2. When service is required, observe the original lead-dress. Extra precautions should be taken to assure correct lead dress in the high voltage circuit.
3. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacturer's. Furthermore, where a short-circuit has occurred, replace those components that indicate evidence of overheating.
4. Before returning an instrument to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become defective or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.

### Leakage Current Cold Check

With the AC plug removed from the AC120V, 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to exposed metal parts (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 0.3 Mohm and a maximum resistor reading of 5 Mohm. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

### Leakage Current Hot Check

Plug the AC line cord directly into a AC200V, 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on. Using a "Leakage Current Tester", measure for current from all exposed metal parts of the cabinet (antennas, screwheads, metal overlays, control shaft, etc.), particularly an exposed metal part having a return path to the chassis, to a known ground (earth) (water pipe, conduit, etc.). Any current measured must not exceed 0.5 mA.


LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5 mA)
DEVICE UNDER TEST
+
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
GROUND (EARTH)

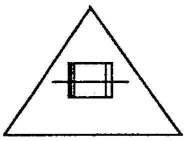
AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE UNIT TO THE CUSTOMER.

### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for a higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified by marking with a ⚠ on the schematics and the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards. Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies for, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

### CAUTION ON FUSE REPLACEMENT



CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE, AMPERAGE, VOLT FUSE.

ATTENTION : AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE TOUT RISQUE D'AMORÇAGE ÉLECTRIQUE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MÊME TYPE ET DE AMPERES VOLTS.

This symbol indicates a Fast Operating Type Fuse.

## SAFETY PRECAUTIONS

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers'. Critical parts are marked with ⚠ in the schematic diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without any danger of electrical shock.

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## COMPARISON WITH EXISTING MODELS [For PAL]

| Item | | VY–170(E) | VY–150E | VY–300(E) |
|---|---|---|---|---|
| Principle | | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink |
| Gradations (frame picture) | | 256 | 256 | 256 |
| Dot structure (V x H) | | 560 x 720 dots<br>576 x 766 dots (Max.) | 563 x 640 dots | 560 x 720 dots<br>576 x 766 dots (Max.) |
| Dot density | | Ver. 7.1 dots/mm<br>Hor. 7.0 dots/mm | Ver. 6.7 dots/mm<br>Hor. 5.8 dots/mm | Ver. 7.1 dots/mm<br>Hor. 7.0 dots/mm |
| Built-in memory | | 8-bit RGB, 1 frame | 6-bit Y/color-difference | 8-bit RGB, 4 frames |
| Speed | | Appr. 58 sec/print | Appr. 110 sec/print | Appr. 58 sec/print |
| Ink paper | | VY-SS50A,<br>VY-SC30W | VY-SS50A,<br>VY-SC30W | VY-SS50A,<br>VY-SC30W |
| I/O terminals | Video | O (BNC terminals) | O (US pins)<br>(EURO Jack) | O (BNC terminals) |
| | Y/C | O (S terminals) | O (S terminals) | O (S terminals) |
| | RGB BNC | O (BNC terminals) | O BNC terminals<br>(Input only) | O (BNC terminals) |
| | RGB analog | X | X | X |
| | RGB TTL | X | X | X |
| Auto scan | | X | X | X |
| Interface | | X | X | Parallel, RS-232C |
| Divided print | | O (2/4/16/25) | X | O (2/4/16/25) |
| Double-enlarged print | | O | X | O |
| Black-and-white print | | O | X | O |
| Character insertion print | | X | X | O |
| Gamme select video/linear | | O | X | O |
| Variable print area | | O | X | O |
| Remote control (wired) | | O | X | O |
| Copies | | Max. 50 (CONTINUE mode available) | Max. 3 (CONTINUE mode available) | Max. 50 (CONTINUE mode available) |
| Data/title superimpose | | X | O | X |
| Print counter | | OSD | Mechanical | OSD |
| Printer control terminal | | X | X | X |

## COMPARISON WITH EXISTING MODELS [For NTSC]

| Item | | VY–170(A) | VY–150A | VY–300(E) | VY-200A |
|---|---|---|---|---|---|
| Principle | | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink |
| Gradations (frame picture) | | 256 | 64 | 256 | 128 |
| Dot structure (V x H) | | 464 x 720 dots<br>496 x 766 dots<br>(Max.) | 466 x 512 dots | 464 x 720 dots<br>496 x 766 dots<br>(Max.) | 464 x 616 dots |
| Dot density | | Ver. 6 dots/mm<br>Hor. 7.2 dots/mm | Ver. 6 dots/mm<br>Hor. 6 dots/mm | Ver. 6 dots/mm<br>Hor. 7.2 dots/mm | Ver. 6 dots/mm<br>Hor. 6 dots/mm |
| Built-in memory | | 8-bit RGB<br>1 frame | 6-bit Y/color-difference | 8-bit RGB<br>4 frames | 7-bit RGB<br>1 frame |
| Speed | | Appr. 58 sec/print | Appr. 100 sec/print | Appr. 58 sec/print | Appr. 90 sec/print |
| Ink paper | | VY-SS50,<br>VY-SS50M,<br>VY-SS30,<br>VY-SP30,<br>VY-SC30W,<br>VY-SN30 type | VY-SS50,<br>VY-SS30,<br>VY-SP30,<br>VY-SC30W,<br>VY-SN30 type | VY-SS50,<br>VY-SS50M,<br>VY-SS30,<br>VY-SP30,<br>VY-SC30W,<br>VY-SN30 type | VY-S, VY-SX,<br>VY-SX-M type |
| I/O terminals | Video | O (BNC terminals) | O (US pins)<br>(Front x 1/Rear x 1) | O (BNC terminals) | O (BNC terminals) |
| | Y/C | O (S terminals) | O (S terminals)<br>(Front x 1/Rear x 1) | O (S terminals) | O (S terminals) |
| | RGB BNC | O (BNC terminals) | O BNC terminals<br>(Input only) | O (BNC terminals) | O (BNC terminals) |
| | RGB analog | X | X | X | O (D-SUB15) |
| | RGB TTL | X | X | X | O (D-SUB9) |
| Auto scan | | X | X | X | O |
| Interface | | X | X | Parallel<br>RS-232C (D-SUB9) | Parallel<br>RS-232C (25P) |
| Divided print | | O (2/4/16/25) | X | O (2/4/16/25) | O (4/16/25) |
| Double-enlarged print | | O | X | O | X |
| Black-and-white print | | O | X | O | O |
| Character insertion print | | X | X | O | X |
| Gamme select video/linear | | O | X | O | O |
| Variable print area | | O | X | O | O |
| Remote control (wired) | | O | O | O | O |
| Copies | | Max. 50<br>(CONTINUE mode available) | Max. 3<br>(CONTINUE mode available) | Max. 50<br>(CONTINUE mode available) | Max. 9 |
| Data/title superimpose | | X | O | X | X |
| Print counter | | OSD | Mechanical | OSD | Mechanical |
| Printer control terminal | | X | O | X | X |

## Specifications

| Model | | VY-300 (A) | VY-170 (A) |
|---|---|---|---|
| Recording method | | Sublimable dye thermal transfer line printing | |
| Print quality | | 256 gradation frame picture, 16,770,000 colors | |
| Number of print pixels (standard print) | | 464 × 720 dots (standard size)<br>496* × 766 dots (maximum size) | |
| Number of print pixels (square mode) | | 464 × 600 dots (standard size)<br>496* × 638 dots (maximum size) | – |
| Picture memory | | RGB frame<br>4-frame (8-field) memory | RGB frame<br>1-frame (2-field) memory |
| Print time | | About 58 seconds per picture (standard print) | |
| Print media | | Ink : cartridge type (special)<br>3-color plane sequential printing (yellow, magenta, cyan)<br>Recording paper : 100 × 140mm cut paper<br>Print size : 77.5 x 99.4mm (standard)<br>82.9 x 105.7mm (maximum) | |
| Input jacks | | Video input : BNC jack 1.0Vp-p 75 Ω<br>Y/C input: S jack screw lock type Y (luma signal) 1.0Vp-p 75 Ω<br>C (chroma signal) 0.286Vp-p 75 Ω<br>RGB input : BNC jack RGB 0.7Vp-p 75 Ω positive polarity.<br>C.Sync 0.3 – 4.0Vp-p 75 Ω positive/negative polarity | |
| Output jacks | | Video output: BNC jacks 1.0Vp-p 75 Ω<br>Y/C output : S jack screw lock type Y (luma signal) 1.0Vp-p 75 Ω<br>C (chroma signal) 0.286Vp-p 75 Ω<br>RGB output : BNC jack RGB 0.7Vp-p 75 Ω positive polarity.<br>C. Sync 0.3-1.2Vp-p 75 Ω positive/negative polarity | |
| Interface | | Parallel interface<br>(Centronix (R) standard)<br>36-pin Amphenol plug<br>RS-232C interface standard D-SUB9 | –<br>– |
| Additional functions | Mirror reverse printing | ○ | |
| | Negative/positive reverse printing | ○ | |
| | Comment function | ○ | – |
| | Single-frame memory | 4, 16 and 25 pictures | |
| | Storobe memory | 1/30, 1/15, 1/4 and 1/2 second | |
| | Multiple same picture printing | 2, 4, 16 and 25 pictures | |
| | P-in-P memory | ○ | |
| | Gamma characteristics | Two types (video and linear) | |
| | Remote controller | Wired (Provided) | Wired (Option) VY – RM170 |
| | 2X zoom | ○ | |
| | B/W print | ○ | |
| Input adjustment | | Color, tint, contrast, brightness | |
| Permissible operating temperatures | | 5℃ ~ 35℃ | |
| Permissible relative humidity | | 20 % ~ 75 % | |
| Power | | AC 120V 60Hz | |
| Power consumption | | 130W | |
| Outside dimensions | | 17 – 1/8″ (W) × 4 – 3/8″ (H) × 14 – 3/8″ (D)<br>435 (W) × 111 (H) × 365 (D) mm | |
| Weight | | 17.2lbs (7.8kg) | 17.0lbs (7.7kg) |
| Part provided | | Video print kit box (for 30 sheets) ····· 1<br>Remote controller VY-RM170 ··· 1 | – |

※ 480 dots with comment on. (VY-300A only)

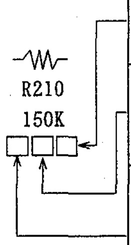
- These specifications and the external appearance of the units, may be changed without notice in order to make improvements.

# WHEN USING THIS SERVICE REFERENCE MATERIAL

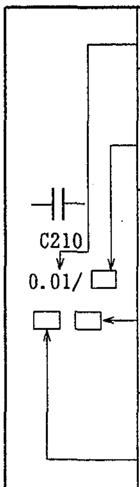
## 1. How to Read Abbreviations

Values, dielectric resistances (power capacitances), tolerances, grades of resistors (excluding variable resistors, etc.) and capacitors are indicated in the schematic diagrams using abbreviations. Collate these abbreviations and the following tables to read abbreviations and replace parts correctly.

*[RESISTORS]*

| | | |
|---|---|---|
|  | Value | No indication ················ ohm<br>K ························· kohm |
| | Tolerance | No indication ··············· ± 5%<br>K ························· ±10%<br>M ························· ±20% |
| | Power capacitance | No indication ·············· 1/8W<br>(All capacitances other than 1/8W are indicated in schematic diagrams with W omitted.) |
| | Type | No indication ····· Carbon film fixed<br>RC ··················· Carbon solid<br>RW ·········· Power-type wire wound solid<br>RS ········ Metal oxide film solid<br>RN ············· Metal film solid |
| Example<br>R210<br>150K ········· 150 kohm, carbon solid<br>RC.1/2.K 1/2W, ±10% | | |

*[CAPACITORS]*

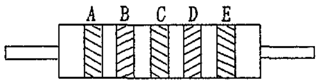
| | | |
|---|---|---|
|  | Value | No indication ················ $\mu$F<br>P ·························· PF |
| | Dielectric resistance | No indication ··············· 50WV<br>(All resistances other than 50WV and those of electrolytic capacitors are indicated with WV omitted.) |
| | Tolerances | No indication ··············· ±10%<br>J ························· ± 5%<br>M ························· ±20%<br>C ······················ ±0.25PF<br>Z ······················ +80%-20%<br>(No indication for electrolytic capacitors. (excluding tantalum and high stability clectrolytic capacitors.) |
| | Type | *No indication* ··· Ceramic, general electrolytic (see circuit symbol to distinct from ceramic.)<br>MYL ······················ Mylar (Polyester film)<br>STY ······················ Styrol<br>TA ······················ Tantalum<br>KU ················ High stability electrolytic<br>MP ············· Metallized paper |
| Example<br>C210<br>0.01/25 ······ Mylar, 0.01$\mu$F, 25WV<br>MYL.J ±5% | | |

## 2. Markings in Schematic and Circuit Board Diagrams

(1) Parts with marks "■" attached to circuit numbers in the schematic and circuit board diagrams are discrete components.
(2) Parts with marks "●" attached to circuit numbers in the schematic and circuit board diagrams are chip components.
(3) Parts with marks Ⓩ in the circuit board diagrams are leadless jumpers.

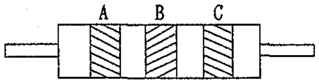
## 3. How to Read Capacitance of Resistance-Type Capacitors and Coils

[CAPACITOR]



CAPACITY : (10A+B)×C (PF)
TOLERANCE : D
RATED VOLTAGE : BODY COLOR
PINK : 25V
GREEN : 50V
CHARACTERISTICS : E

[COIL]



*INDUCTANCE : (10A+B)×C ($\mu$H)*

| COLOR | A, B | C | D | E |
|---|---|---|---|---|
| Black | 0 | $10^0$ | ±20% | For temperature compensation |
| Brown | 1 | $10^1$ | | |
| Red | 2 | $10^2$ | | |
| Orange | 3 | $10^3$ | | |
| Yellow | 4 | $10^4$ | | |
| Green | 5 | $10^5$ | | |
| Blue | 6 | | | |
| Violet | 7 | | | |
| Gray | 8 | | ±30% | High dielectric constant type |
| White | 9 | | | For temperature compensation |
| Gold | | $10^{-1}$ | ± 5% | |
| Silver | | $10^{-2}$ | ±10% | High dielectric constant type |

## 4. Cautions on Use of MOS ICs

(1) MOS ICs are inserted in black foam for shipment. This foam is a conductor which short-circuits between the leads to prevent damage. Do not remove ICs from this foam during storage. Avoid removing ICs from this foam, placing them on plastic which is likely to be charged with static electricity or inserting them into styrol foam.
(2) High voltages may be applied during soldering caused by leakages from the soldering iron, so be sure to ground the tip of the soldering iron or use a low voltage soldering iron.
(3) The human body and clothes made of synthetic fiber or nylon gloves may be charged with several thousand volts of static electricity because of friction, so workers should be grounded.

## DISASSEMBLY

### 1. Arrangement of circuit boards

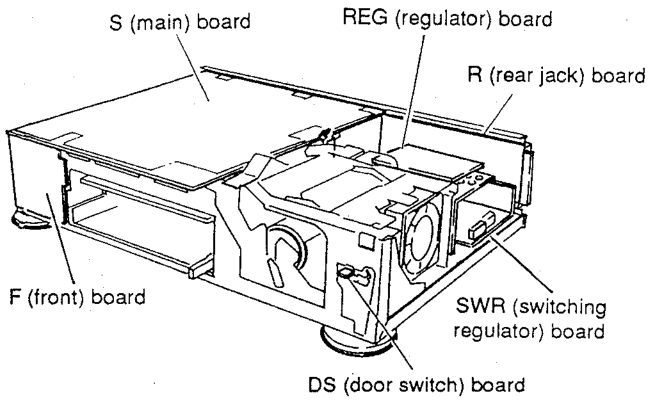

S (main) board
REG (regulator) board
R (rear jack) board
F (front) board
SWR (switching regulator) board
DS (door switch) board

Fig. 1-1 Front view

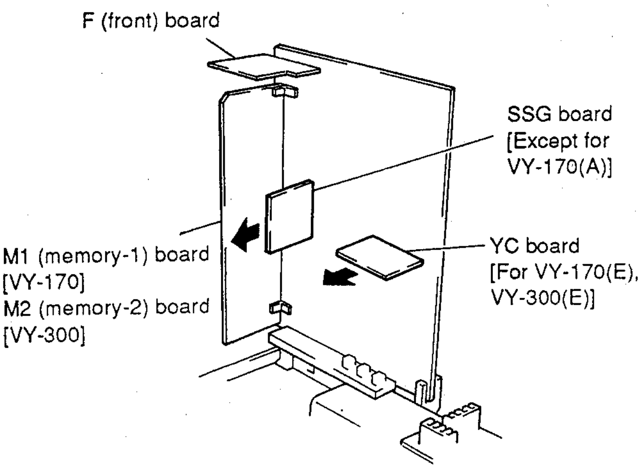

F (front) board
SSG board [Except for VY-170(A)]
M1 (memory-1) board [VY-170]
M2 (memory-2) board [VY-300]
YC board [For VY-170(E), VY-300(E)]

Fig. 1-2 Main board swung open

### 2. Removal of cases

**[1] Top cover (Fig. 2-1)**

1) Remove the screws (seven) fastening the top cover.
2) Pulling the sides of the top cover outward, slide it backward.

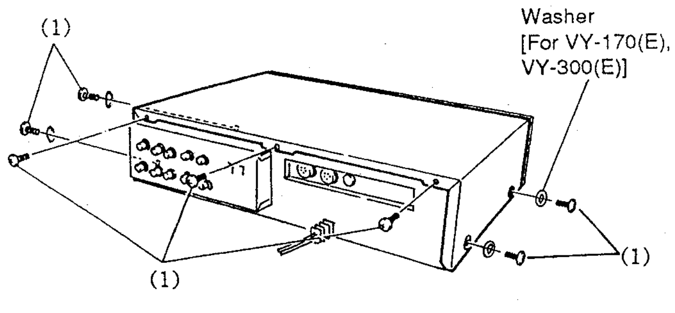

(1)
Washer [For VY-170(E), VY-300(E)]
(1)
(1)

Fig. 2-1 Top cover

**[2] Front panel (Fig. 2-2)**

1) Remove the top cover (see [1]).
2) Remove the screws (three on bottom, three on top) fastening the front panel.
3) Open the ink cartridge door.
4) Release the stoppers (six) and pull out the front panel.

<Precaution for reassembly>

- With the ink cartridge door kept open, install the front panel to the chassis at right angles.

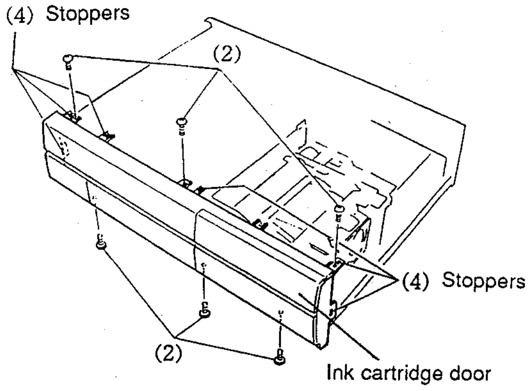
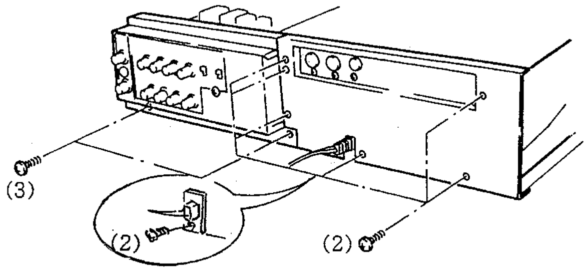

(4) Stoppers
(2)
(4) Stoppers
(2)
Ink cartridge door

Fig. 2-2 Front panel

**[3] Rear panel (Fig. 2-3)**

1) Remove the top cover (see [1]).
2) Remove the screws (six) and the rear panel (right).
3) Remove the screws (two) and the rear panel (left).



[For A]

Fig. 2-3 Rear panel

**[4] Bottom cover (Fig. 2-4)**

1) Remove the screws (three) fastening the bottom cover.

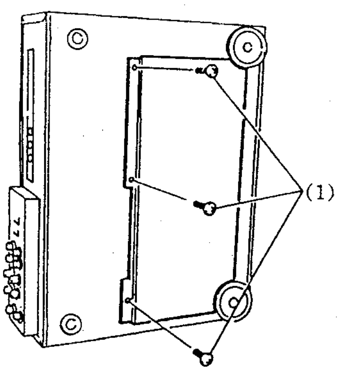


Fig. 2-4 Bottom cover

**[5] Ink cartridge door (Figs. 2-5, 2-6)**

1) Open the door by about 45°. Release the stoppers (two). Remove the cover inside the ink cartridge door.
2) Separate the joints (three) and remove the ink cartridge door. (Fig. 2-6)

**[6] Paper door (Fig. 2-5)**

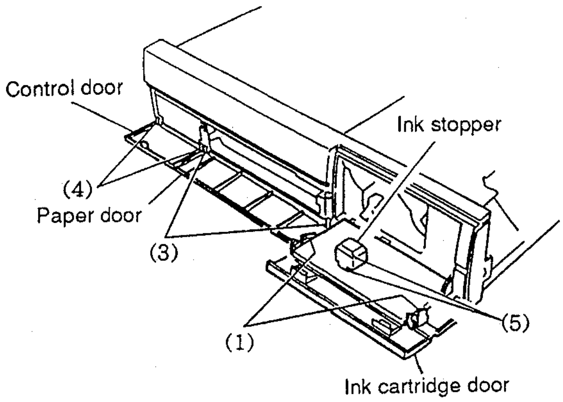
3) Open the paper door and separate the joints (two).

**[7] Control door (Fig. 2-5)**

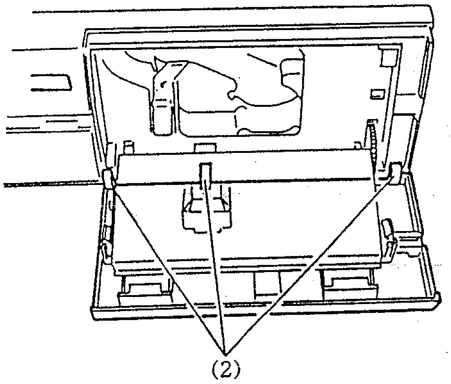
4) Open the control door and separate the joints (two).

**[8] Ink stopper (Fig. 2-5)**

5) Release the front and rear stoppers (two). (On reassembly, do not fail to install the spring.)



Figs. 2-5 Ink cartridge door, paper door, control door, ink stopper



Figs. 2-6 Ink cartridge door

**[9] Door damper (Fig. 2-7)**

1) Remove the front panel (see [2]).
2) Remove the screws (two) fastening the door damper.

<Precaution for reassembly>

- With the ink cartridge door closed, install the door damper.

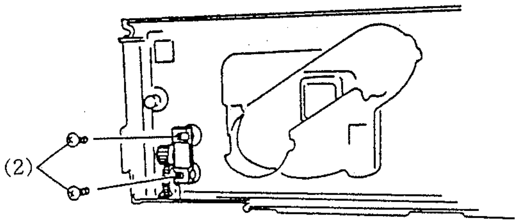


Fig. 2-7 Door damper

## 3. Removal of circuit boards

* Remove the top cover and front panel in advance (see [1] and [2] above).

**[1] F (front) board (Fig. 3-1)**

1) Remove the screw (one) fastening the board.
2) Release the stoppers (three) and swing open the board to about 45°.
3) Pull off the F (front) board from the S (main) board.

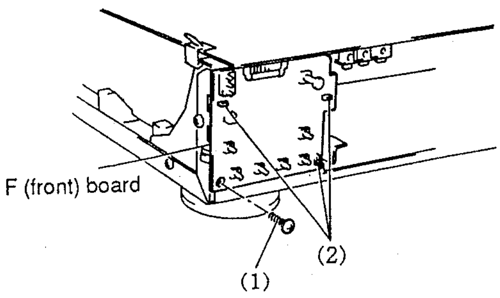


Fig. 3-1 F (front) board

**[2] S (main) board (Figs. 3-2 and 3-3)**

1) Remove the screws (two) fastening the rear panel.
2) Open the F (front) board.
3) Remove the screws (two) fastening the board.
4) Release the stoppers (two) and swing open the board in the direction of arrow.

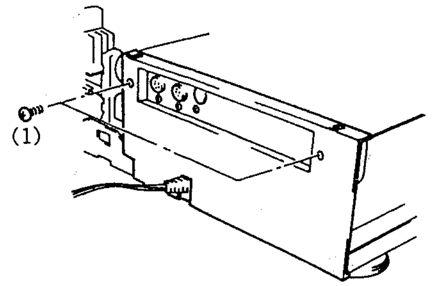


Fig. 3-2 M (main) board

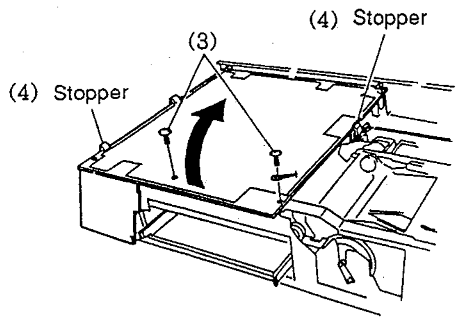


Fig. 3-3 S (main) board

**[3] SWR (switching regulator) board (Fig. 3-4)**

1) Remove the S (main) board (see [2]).
2) Remove the screws (four) fastening the SWR (switching regulator) board

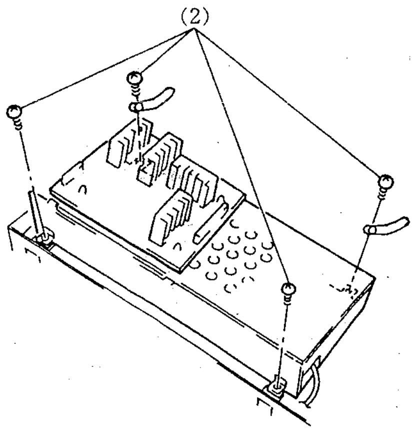


Fig. 3-4 SWR (switching regulator) board

**[4] REG (regulator) board (Fig. 3-5)**

1) Remove the nylon rivets (four) on the REG (regulator) board.

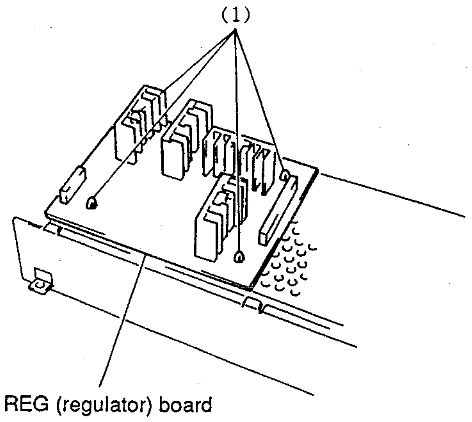


Fig. 3-5 REG (regulator) board

**[5] M (memory) board (Fig. 3-6)**

1) Open the S (main) board.
2) Remove the screws (two).
3) Separate the M (memory) board from the S (main) board by disuniting the soldered joints.

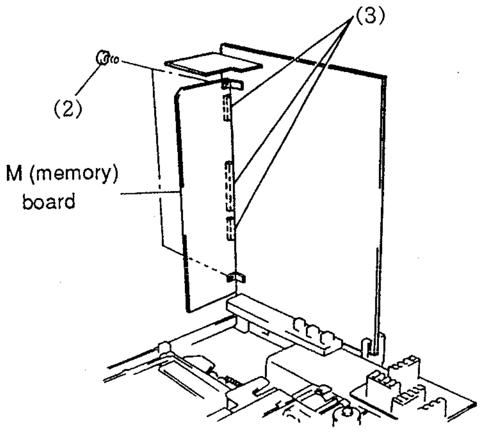


Fig. 3-6 M (memory) board

**[6] R (rear jack) board (Fig. 3-7)**

1) Remove the rear panel (see [3]).
2) Remove the screws (two) from the rear panel.
3) Disconnect the connectors (three) on the board.

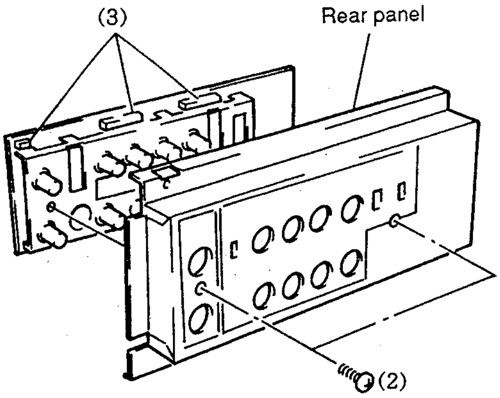


Fig. 3-7 R (rear jack) board

**[7] DS (door switch) board (Fig. 3-8)**

1) Remove the mechanism block (see [1] in "Removal of principal components").
2) Remove the screw (one) fastening the board.

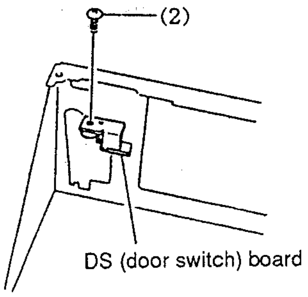


Fig. 3-8 DS (door switch) board

**[8] SSG board (Fig. 3-9)**

– Except for VY-170(A) –

1) Open the S (main) board (see [3] of "Removal of circuit boards").
2) Pull out the SSG board from the S (main) board.

**[9] YC board (Fig. 3-9)**

– For VY-170(E), 300(E) –

1) Open the S (main) board (see [3] of "Removal of circuit boards").
2) Pull out the YC board from the S (main) board.

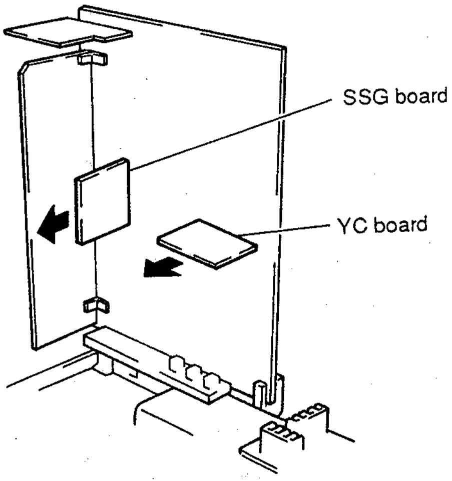


Fig. 3-9 SGG and YC boards

## 4. Removal of principal components

**[1] Mechanism block (Fig. 4-1)**

1) Open the S (main) board (see [3] of "Removal of circuit boards").
2) Remove the screws (three) fastening the mechanism block.
3) Disconnect the connectors of the mechanism from the S and SWR boards, and raise the whole block.

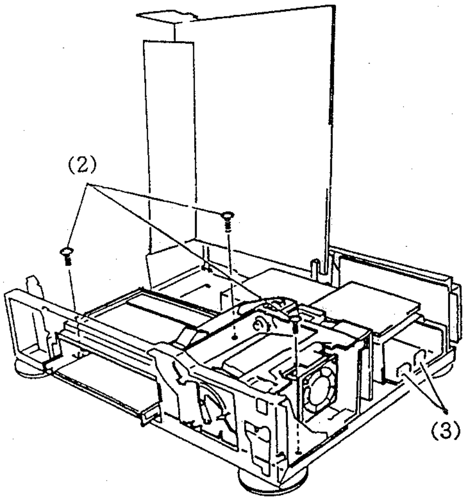
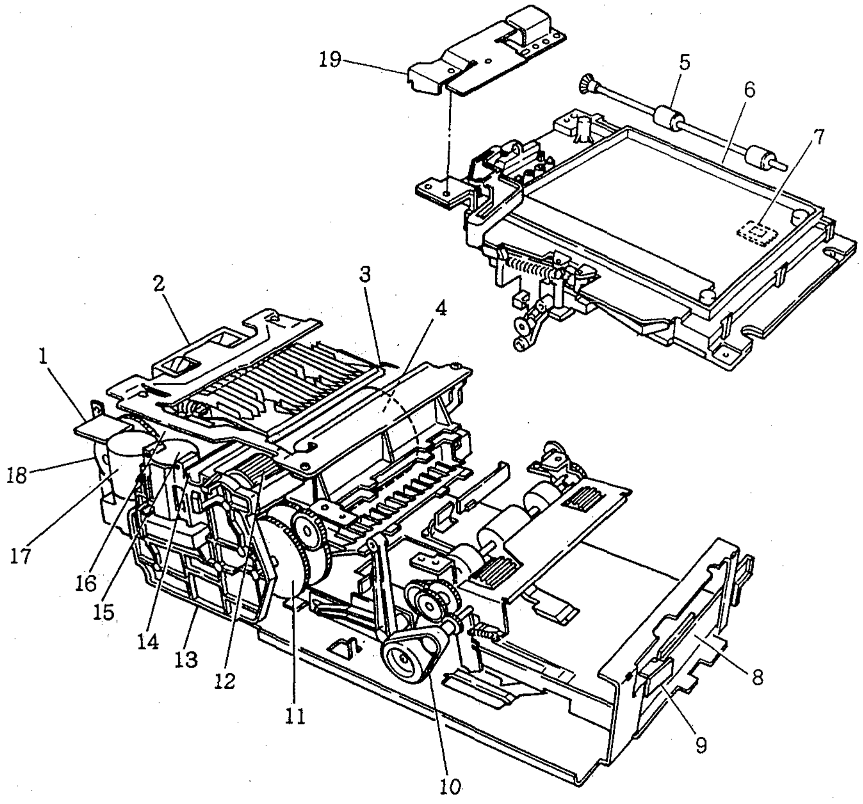


Fig. 4-1 Mechanism block

## [2] Structure of the print mechanism and paper feed/discharge mechanism (Fig. 4-2)


19
5
6
7
2
3
4
1
18
17
16
15
14
13
12
11
10
9
8

1. Mechanism mode switch board
2. Fan motor
3. Thermal head
4. Drum
5. B-roller (shaft)
6. Paper discharge holder
7. Paper sensor 2 board
8. Paper feed holder
9. Tray switch board
10. Belt
11. Clutch gear
12. Takeup reel disk
13. Reel chassis assembly
14. Motor/FG sensor board
15. Drum motor
16. Mechanism sensor board
17. Mode motor
18. Mechanism mode switch
19. Retaining plate

**Fig. 4-2 Print mechanism and paper feed/delivery mechanism**

### [3] Removal of parts

(1) Paper discharge holder assembly (Fig. 4-3)
- 1) Remove the spring.
- 2) Remove the screws (four), then remove the paper discharge holder together with the retaining plate.

(2) Paper discharge tray (A) (Fig. 4-3)
- 3) Remove the stoppers (three) and raise the tray.

(3) B-roller assembly (Fig. 4-4)
- 4) Remove the roller shaft supports (two).

(4) Paper discharge roller (Fig. 4-4)
- 5) Remove the paper discharge roller.

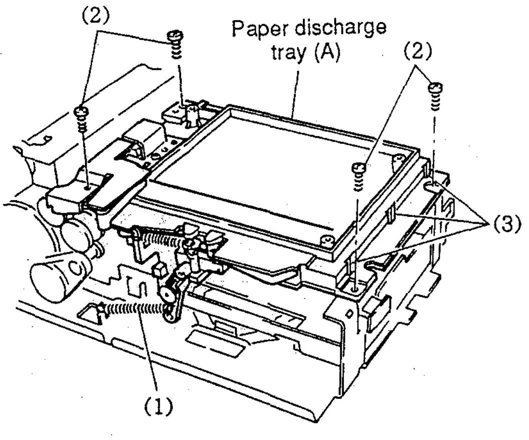

(2)
Paper discharge tray (A)
(2)
(3)
(1)

Fig. 4-3

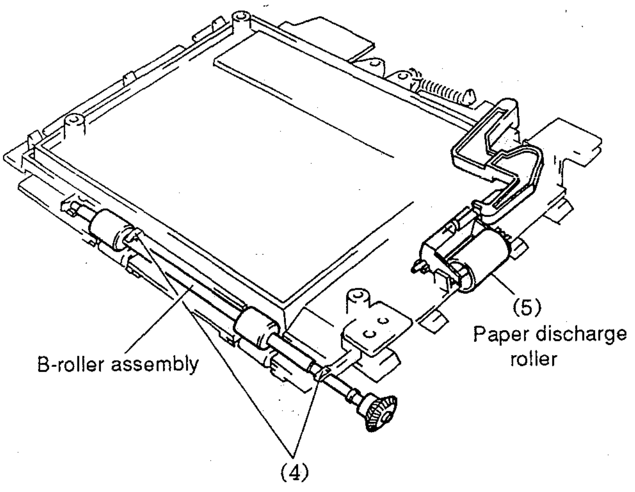

B-roller assembly
(5)
Paper discharge roller
(4)

Fig. 4-4

(5) Paper discharge lever (Fig. 4-5)
  7) Remove the washer and pull off the lever.

(6) Paper discharge arms (L), (R) (Fig. 4-5)
  8) Remove the spring.
  9) Release the arm shaft stopper and pull off the arm upward.

<Precaution for reassembly>
- Align the arrow marks at the gears of the paper discharge arms (L) and (R).

(7) Auxiliary roller (Fig. 4-5)
  10) Remove the auxiliary roller.
  11) Release the stoppers (two) and the auxiliary roller retaining spring.

<Precaution for reassembly>
- Do not deform the retaining spring.

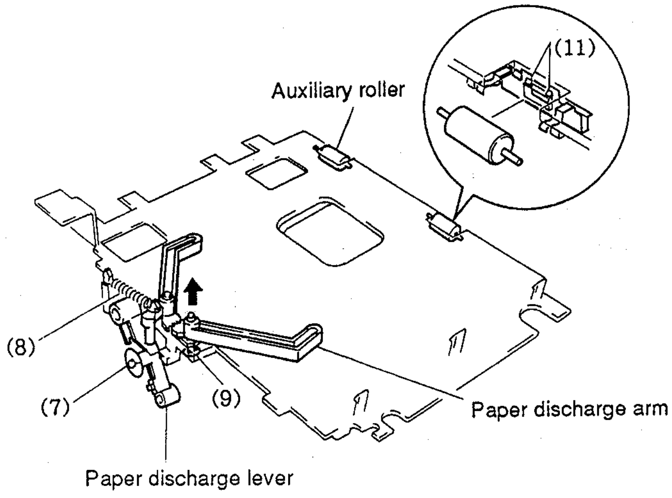

(11)
Auxiliary roller
(8)
(7)
(9)
Paper discharge arm
Paper discharge lever

Fig. 4-5

(8) Paper feed mechanism (Fig. 4-6)
  1) Remove the spring.
  2) Remove the screw (one).
  3) Taking care of the joints, raise the whole mechanism.

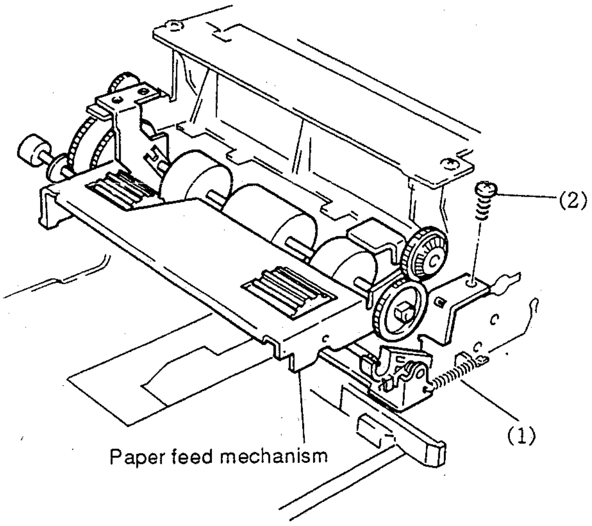

(2)
(1)
Paper feed mechanism

Fig. 4-6

(9) P-roller assembly, reset arm (Fig. 4-7)
  4) Remove the spring.
  5) Release the stoppers (two, left/right) from the roller bearing. Remove the P-roller assembly and reset arm.
  6) Separate the P-roller assembly from the reset arm.

<Precaution for reassembly>
- Bond the roller bearing after installing.

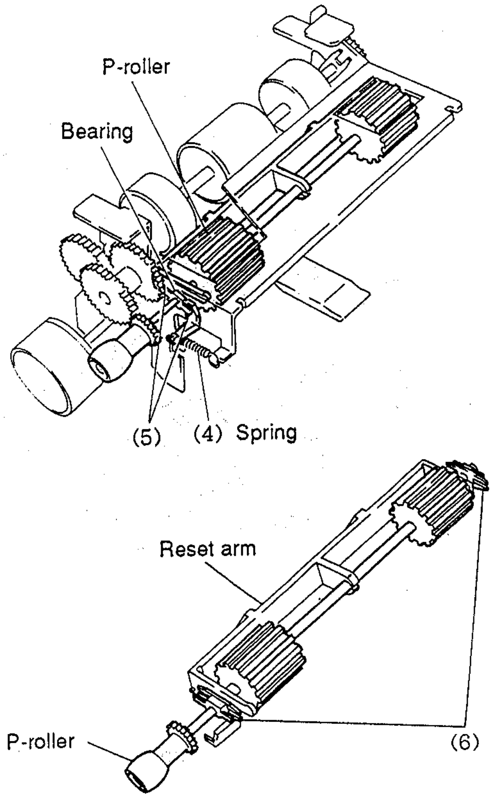

P-roller
Bearing
(5)
(4) Spring
Reset arm
P-roller
(6)

Fig. 4-7

(10) Intermediate gears (Fig. 4-8)
  7) Remove the washer and pull off the intermediate gear.

(11) F-roller assembly (Fig. 4-8)
  8) Remove the stopper from the F-roller shaft and remove the gears at left and right.
  9) Release the stoppers (two, left/right) from the F-roller bearing. Then remove the F-roller assembly.

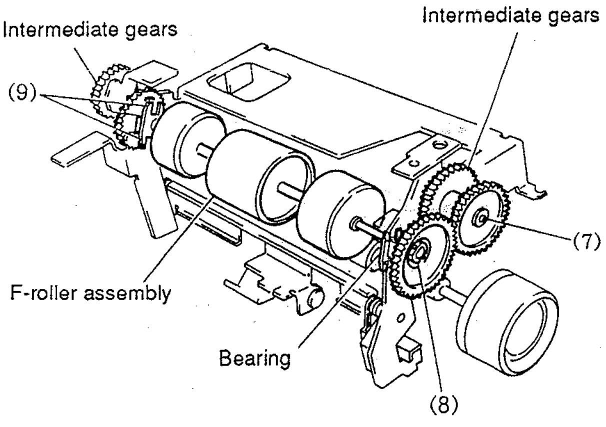

Intermediate gears
Intermediate gears
(9)
(7)
F-roller assembly
Bearing
(8)

Fig. 4-8

(12) B-roller assembly, paper feed arm assembly, paper marker sensor board (Fig. 4-9)

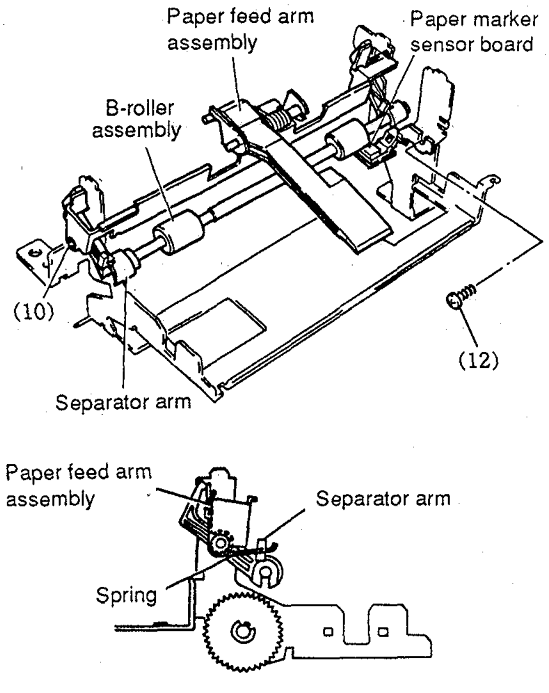
10) Remove the washer and the paper feed arm assembly.

<Precaution for reassembly>

- When installing the paper feed arm assembly, pass the spring through the shaft and fit one end of the spring to the separator arm and the other end to the paper feed arm.

11) Remove the separator arm from the shaft. Then remove the B-roller assembly.

12) Remove the screw and then the paper marker sensor board. (Remove the wire retainer.)


Paper feed arm assembly
Paper marker sensor board
B-roller assembly
(10)
(12)
Separator arm
Paper feed arm assembly
Separator arm
Spring

— Engagement of spring —

Fig. 4-9

(13) Reel chassis assembly, roller gear (Fig. 4-10)

1) Remove the screws (three). Taking care of the gear, remove the whole assembly.

2) Remove the washer and pull off the roller gear.

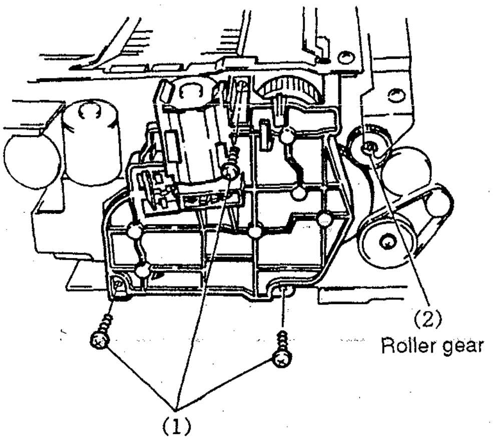

(2)
Roller gear
(1)

Fig. 4-10

(14) Clutch gear, D-worm gear, T-reel disk, S-reel disk (Fig. 4-11)

3) Remove the cap and pull off the clutch gear.

<Precaution for reassembly>

- The clutch gear consists of two gears. Install the spring between the gears.

4) Remove the washer and pull off the D-worm gear.

5) Remove the washer and pull off the T-reel disk.

6) Remove the washer and pull off the S-reel disk.

(15) S-lock arm (Fig. 4-11)

7) Remove the srping.

8) Release the stopper at the back and then remove the S-lock arm.

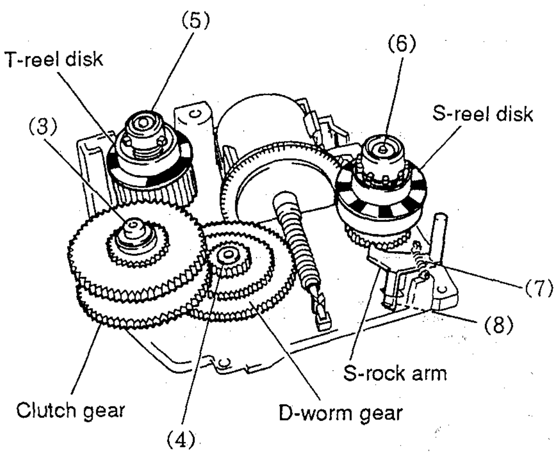

(5)
T-reel disk
(6)
(3)
S-reel disk
(7)
(8)
S-rock arm
Clutch gear
D-worm gear
(4)

Fig. 4-11

(16) Drum motor, motor FG sensor board (Fig. 4-12)

9) Remove the idler gear.

10) Release the stoppers (two) and then the motor FG sensor board.

11) Disunite the bosses (two), release the stoppers (two) on the motor and then remove the drum motor.

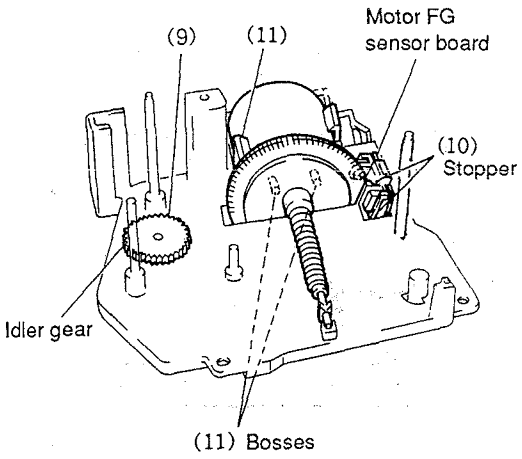

(9)
(11)
Motor FG sensor board
(10)
Stopper
Idler gear
(11) Bosses

Fig. 4-12

(17) Mode motor, mechanism mode switch assembly, mode gear, worm gear (Figs. 4-13, 14, 15)

1) Remove the screws (two) and then the mode motor/mechanism mode switch assembly.
2) Now you can remove the mode motor and worm gear.

<Precaution for reassembly>

- Gear alignment
  1) Assemble the gears so that the hole on the mode gear comes as shown below when the slide arm is located at (A).
  2) Holding the mode gear slightly raised, lift the thermal head slowly. Make sure it is engaged with the groove on the back of the gear.
  3) Turning the mode gear, make sure that the thermal head and slide arm move.
- Installation of the mechanism mode switch
  1) Install the mechanism mode switch so that the arrow mark provided at its center points to the direction "1" when the slide arm is located at (A).

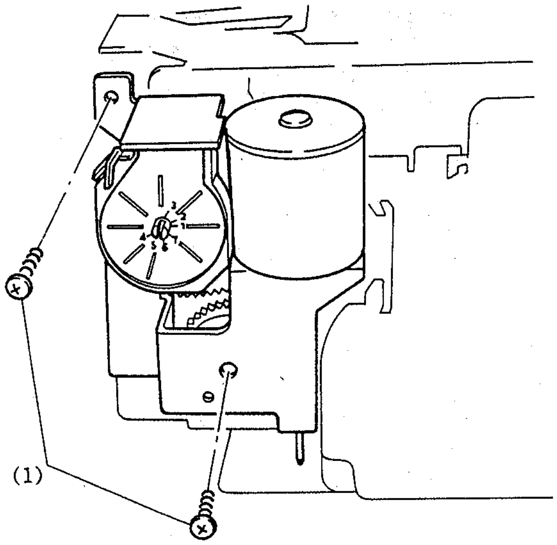


Fig. 4-13

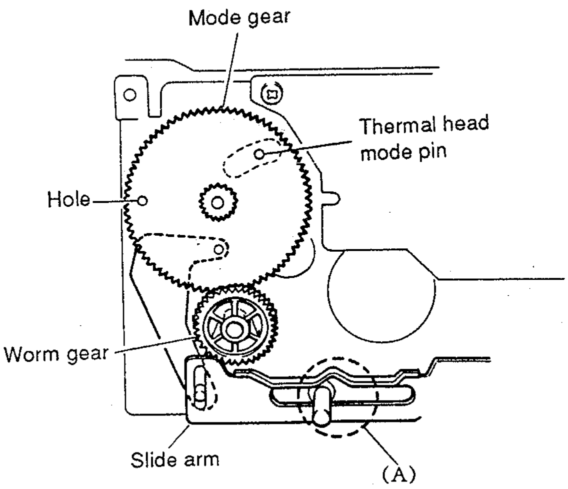


Fig. 4-14 Gear alignment

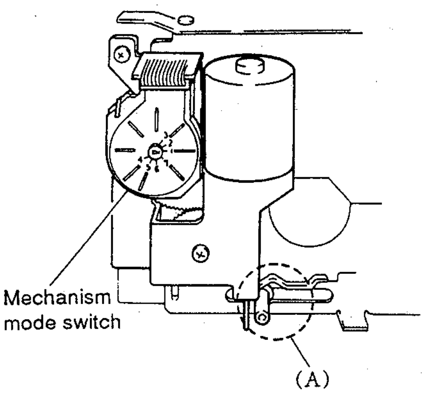


Fig. 4-15 Installation of the mechanism mode switch

(18) Mechanism sensor board (Fig. 4-16)

1) Remove the reel chassis assembly (see (13)).
2) Remove the mode motor/mechanism mode switch assembly and mode gear (see (17)).
3) Remove the screws (four) and then the top frame (see (21)).
4) Remove the screws (three) and then the mechanism sensor board by pulling up.

<Precaution for reassembly>

- Before installing the mechanism sensor board, remove the drum gear (see (23)).

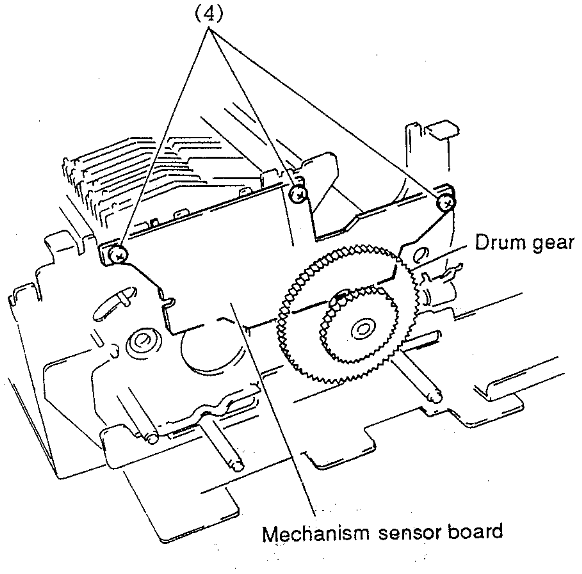


Fig. 4-16

(19) Tray switch board, tray guide (Fig. 4-17)

1) Remove the screw (one) and then the tray switch board.
2) Remove the paper feed mechanism (see (8)).
3) Remove the screws (two).
4) Slide and remove the tray guide in the direction of arrow.

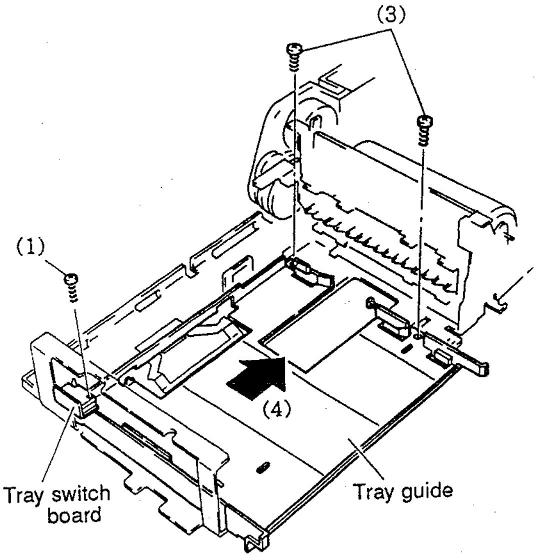

(3)
(1)
(4)
Tray switch board
Tray guide

Fig. 4-17

(20) Fan motor (Fig. 4-18)
 1) Remove the screws (two).

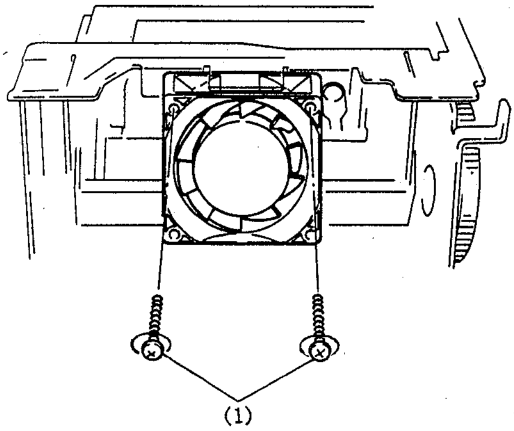


Fig. 4-18

(21) Thermal head, ink marker sensor board, head arm assembly (Figs. 4-19, 20)
 1) Disconnect the connectors (three) on the mechanism sensor board.
 2) Remove the screws (four) fastening the top frame, then remove the springs.
 3) Remove the screws (two) and then the heat sink.
 4) Disconnect the connectors (three) of the thermal head.
 5) Remove the screw from the board, and then the ink marker sensor board.
 6) Remove the thrust support, and slide the head arm assembly in the direction of arrow and remove.

<Precaution for reassembly>

- One of the springs are marked in green. Don't mistake one for the other.
- When removing screws from the heat sink and thermal head, hold the thermal head by hand.
- When holding the thermal head by hand, don't touch the wire bonding (see Fig. 4-21): failure might result.
- Lock the screws (four) fastening the thermal head by applying lock paint.

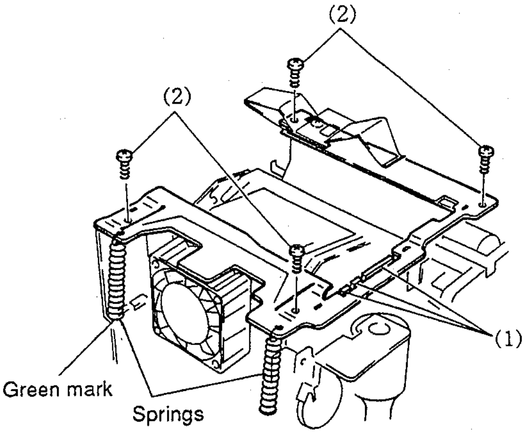

(2)
(2)
(1)
Green mark
Springs

Fig. 4-19

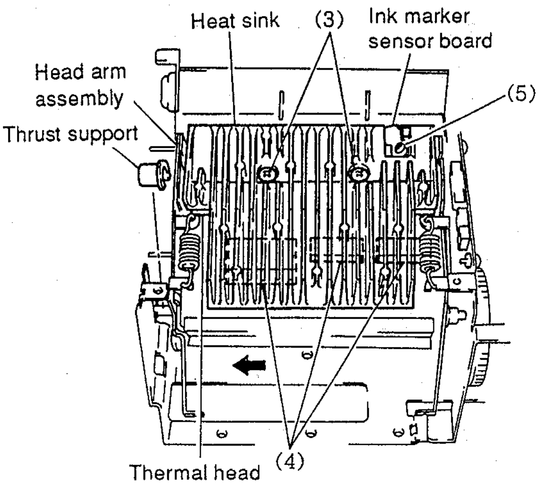

Heat sink
(3)
Ink marker sensor board
Head arm assembly
(5)
Thrust support
Thermal head
(4)

Fig. 4-20

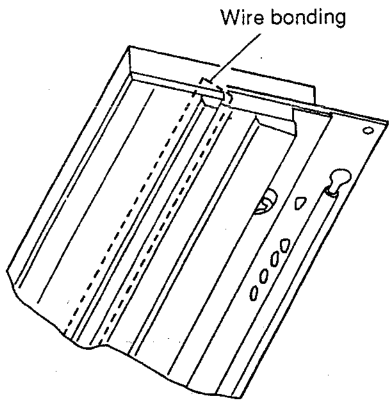

Wire bonding

Fig. 4-21

### (22) Paper discharge guide, PC guide, main guide (Figs. 4-22, 23)

1) Remove the top frame and reel chassis assembly (see (13)).
2) Disunite the joints (two) of the side chassis and pull off the paper discharge guide upward.
3) Remove the head arm assembly (see (21)).
4) Remove the stoppers (two) on the bottom of the mechanism and pull off the PC guide upward.
5) Remove the screws (two) on the bottom of the mechanism and then the main guide.

<Precaution for reassembly>

- Each guide has positioning pawls at the left and right ends. Fit the pawls to the bosses of the side chassis (Fig. 4-24).
- After installing the main guide, glue the positioning pawls with adhesive (Fig. 4-25).

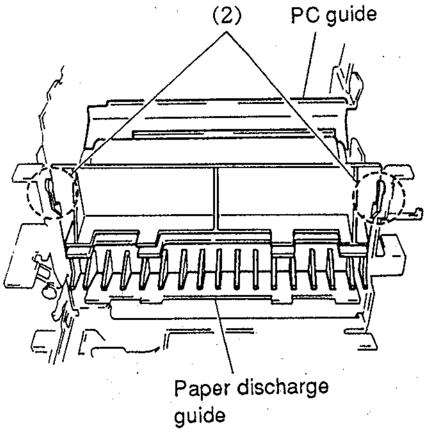

(2)
PC guide
Paper discharge guide

Fig. 4-22

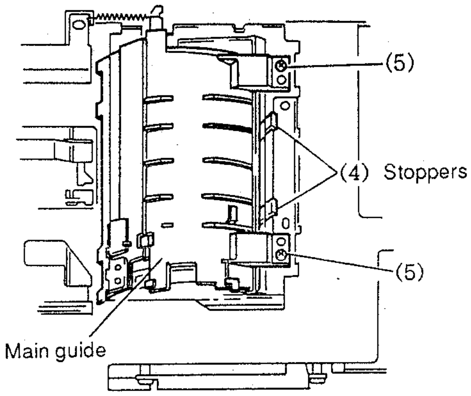

(5)
(4) Stoppers
(5)
Main guide

Fig. 4-23

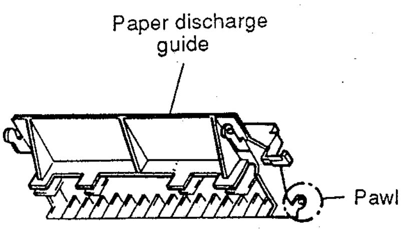

Paper discharge guide
Pawl

Fig. 4-24

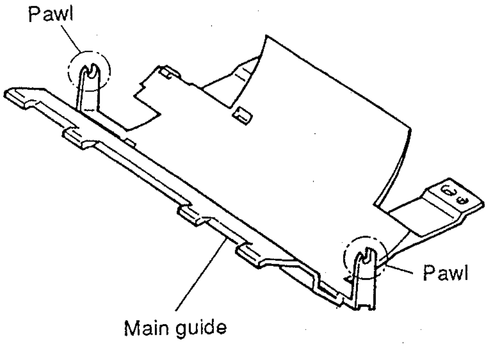

Pawl
Pawl
Main guide

Fig. 4-25

### (23) Drum gear, drum assembly, drum shaft bearing (Fig. 4-26)

1) Remove the paper feed mechanism (see (8)).
2) Remove the reel chassis assembly (see (13)).
3) Remove the mode motor/mechanism mode switch assembly and mode gear (see (17)).
4) Remove the mechanism sensor board (see (18)).
5) Remove the head arm assembly (see (21)).
6) Remove the paper discharge guide and PC guide (see (22)).
7) Loosen the hex screw and remove the drum gear.
8) Remove the conical spring.
9) Remove the screws (two) on the front side and then the drum shaft bearing.
10) Release the stoppers (two) on the drum shaft bearing and raise the drum assembly.

<Precaution for reassembly>

- Fit the top of the conical spring into the hole on the drum shaft bearing (Fig. 4-27).

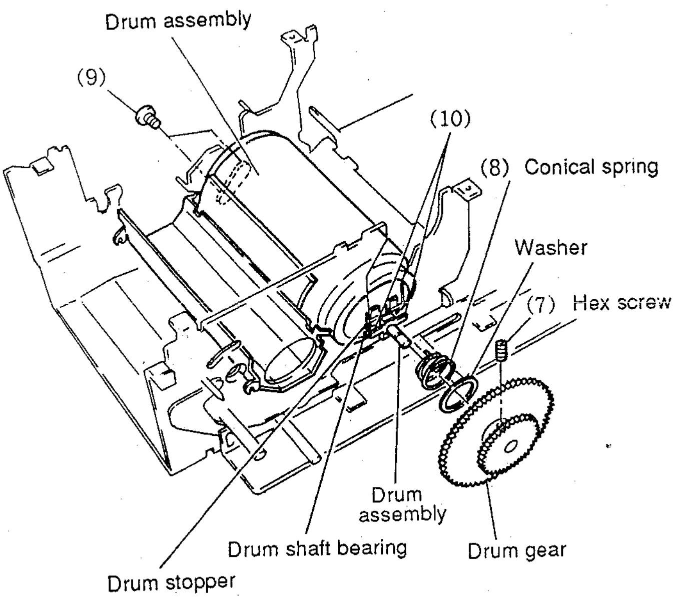

Drum assembly
(9)
(10)
(8) Conical spring
Washer
(7) Hex screw
Drum assembly
Drum shaft bearing
Drum gear
Drum stopper

Fig. 4-26

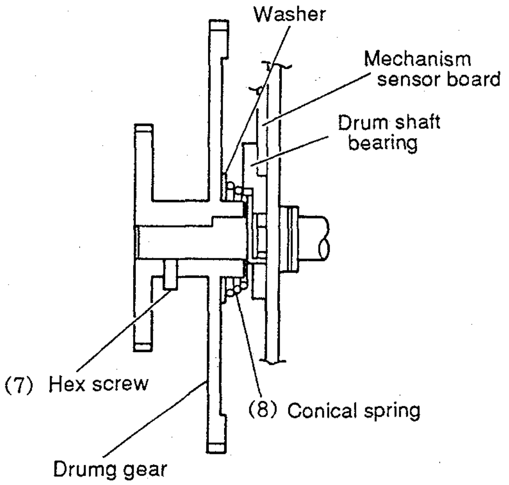

Washer
Mechanism sensor board
Drum shaft bearing
(7) Hex screw
(8) Conical spring
Drumg gear

Fig. 4-27

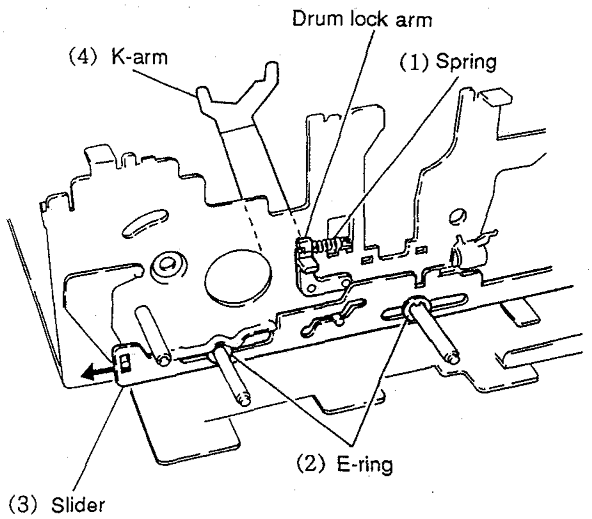

Drum lock arm
(4) K-arm
(1) Spring
(2) E-ring
(3) Slider

Fig. 4-29

(24) Switching spring (Fig. 4-28)

1) Remove the washer and then the spring.

<Engagement of the spring>

- Fit the spring to the switching arm. Fit one end of it to the switching spring and the other end to the arm.

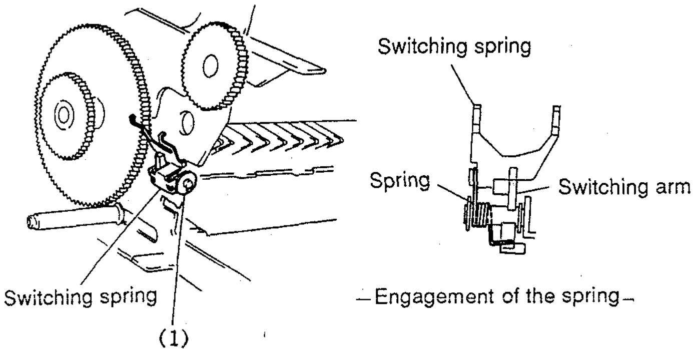

Switching spring
Spring
Switching arm
–Engagement of the spring–
Switching spring
(1)

Fig. 4-28

(25) Slider, K-arm, drum lock arm (Fig. 4-29)

1) Remove the spring and drum lock arm.
2) Remove the E-ring.
3) Slide the slider in the direction of arrow and remove it toward you.
4) Remove the K-arm downward.

# CHAPTER 3

## MAINTENANCE OF THE PRINT MECHANISM

●: Replace ▼: Oil ■: Clean/check

| Part | Maintenance | Intervals (in copy count) | Remark | Reference | |
|---|---|---|---|---|---|
| | | | | Cleaning/replacing | Removing part |
| 1. Belt (rubber section) | ■ | 5,000 | | Fig. 1 | |
| 2. P-roller (paper feed rubber roller) | ■ ● | 5,000 (Replace: 20,000) | | Fig. 1 | Fig. 6 |
| 3. F-roller (paper feed/ discharge rubber roller) | ■ ● | 5,000 (Replace: 20,000) | | Fig. 1 | |
| 4. Drum | ■ | 5,000 | | Fig. 2, 5 | |
| 5. Thermal head | ■ ● | ——— (Replace: 5,000) | Clean, Hitachi paper 5000 copies | Fig. 3 | Fig. 18, 19 |
| 6. B-roller (paper discharge rubber roller) | ■ | 5,000 | | Fig. 4 | |
| 7. Main guide | ■ | 5,000 | | Fig. 5, 6 | |
| 8. Paper discharge guide | ■ | 10,000 | | Fig. 7 | |
| 9. PC guide | ■ | 10,000 | | Fig. 8, 9 | |
| 10. Drum warm | ▼ ● | 5,000 (Replace: 20,000) | | See exploded views for lubrication | Fig. 10, 11 |
| 11. Paper feed arm | ▼ ● | 20,000 | | See exploded views for lubrication | Fig. 8 |
| 13. Mode gear | ▼ ● | 5,000 (Replace: 10,000) | | See exploded views for lubrication | Fig. 12 |
| 11. Mode motor warm | ▼ ● | 5,000 (Replace: 20,000) | | See exploded views for lubrication | |
| 12. Slider | ▼ | 10,000 | | See exploded views for lubrication | |
| 13. Clutch gear | ▼ | 10,000 | | See exploded views for lubrication | |

## 1. Cleaning and replacing principal parts

### 1-1 Cleaning the paper feed mechanism (possible trouble: paper feeding/discharging unstable) (Fig. 1)

(1) Remove the top cover and front panel (see "Removal of cases").

(2) Remove the paper discharge holder (see "Removal of principal components").

(3) Clean the paper feed belt, P-roller and F-roller with a cotton swab soaked with alcohol.

<Caution>
If the P-roller or F-roller is worn very much, replace it.
Don't apply a large force to the F-roller.

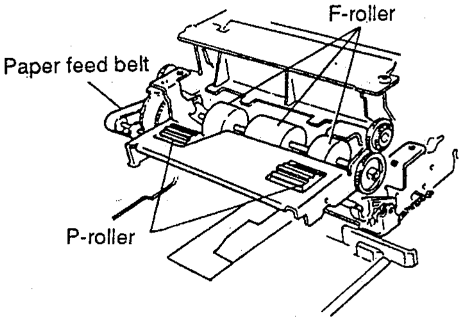


Fig. 1

### 1-2 Cleaning the drum (possible trouble: paper running askew, paper feed/discharge malfunction) (Fig. 2)

(1) Insert a cotton swab soaked with industrial alcohol into the ink cassette inlet.

(2) Turn the drum by finger to clean the rubber surface. (At this time, don't apply a force to the chuck arm (black) provided at the outside of the drum.)

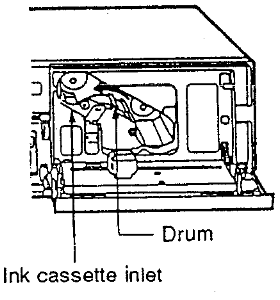


Fig. 2

### 1-3 Cleaning the thermal head (possible trouble: stripes in printed image)

(1) Remove the top cover (see "Removal of cases").

(2) Clean the thermal head surface with the head cleaning bar wet with a little bit of industrial alcohol.

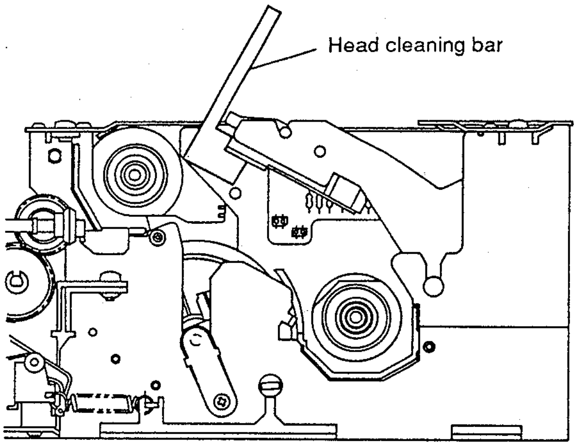


Fig. 3

### 1-4 Cleaning the B-roller (possible trouble: paper discharge unstable)

(1) Remove the top cover and front panel (see "Removal of cases" in Chapter 2).

(2) Remove the paper discharge roller from the paper discharge holder, and clean the roller with a cotton swab soaked with alcohol.

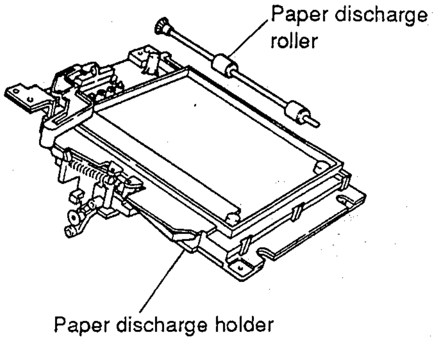


Fig. 4

### 1-5 Paper transport mechanism (possible trouble: paper running askew, paper feed unstable (paper feed mechanism working properly))

**(1) Cleaning the main guide (Figs. 5, 6)**

1) Remove the bottom cover (see "Removal of cases").
2) Remove the screws (two) fastening the main guide, then remove the main guide.
3) Turn the drum by finger to clean the rubber surface (see 1-2, Cleaning the drum).

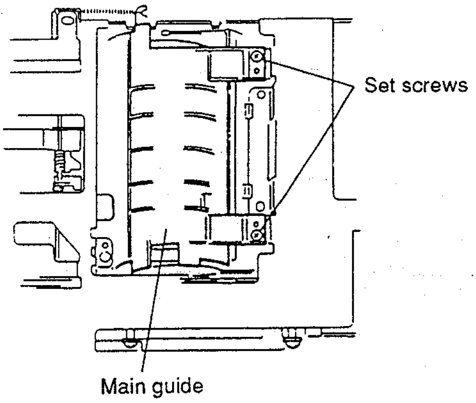
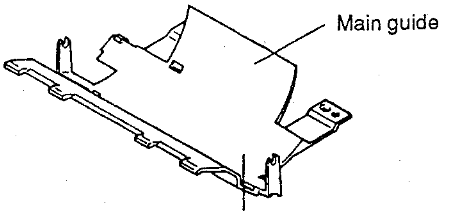


Fig. 5

4) Clean the main guide surface over which paper passes with a cotton swab soaked with alcohol.

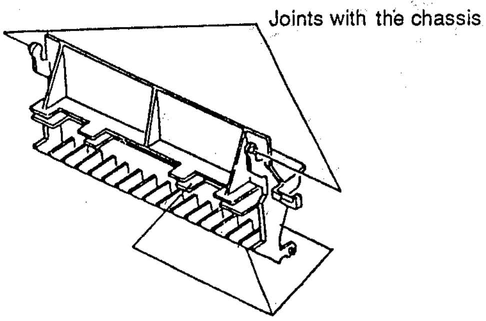


Clean this surface over which paper passes.

Fig. 6

**(2) Cleaning the paper discharge guide (Fig. 7)**

1) Remove the top frame (see (21) on page 2-9).
2) Remove the paper discharge holder and paper feed mechanism.
3) Remove the reel chassis assembly (see (13) on page 2-7).
4) Disunite the paper discharge guide from the chassis L/R and remove it upward.
5) Clean the paper discharge guide surface over which paper passes with a cotton swab soaked with alcohol.



Clean this surface over which paper passes.

Fig. 7

**(3) Cleaning the PC guide (Figs. 8, 9)**

1) Release the stoppers (two) from the bottom of the mechanism, then remove the PC guide.
2) Clean the PC guide surface over which paper passes.

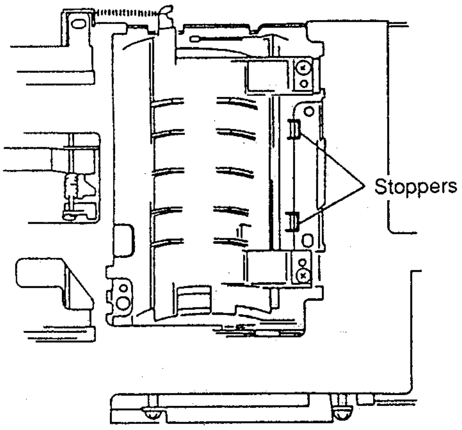


Fig. 8

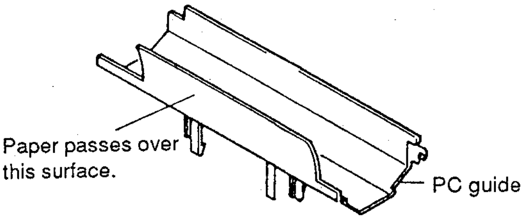


Fig. 9

## 2. Disassembly and reassembly of mechanical parts

### 2-1 Replacing the drum worm gear, clutch gear, supply reel disk, and checking the takeup reel disk (Fig. 10)

(1) Remove the reel chassis assembly (see (13) on page 2-7).
(2) Remove the cap press-fit to the clutch gear.
(3) Remove the clutch gear.
(4) Remove the drum worm gear. Apply Froil to the new gear and assemble.
(5) Check the takeup reel disk.
    A) If you move it up and down, it should normally move about 0.5 mm.
    B) Replace it if the washer does not allow the reel disk to move. (Remove the washer on the reel disk.)
(6) Apply Froil to each gear.
(7) For reassembly, reverse the procedure of disassembly.

### 2-2 For replacing the other parts, refer to "Removal of principal parts".

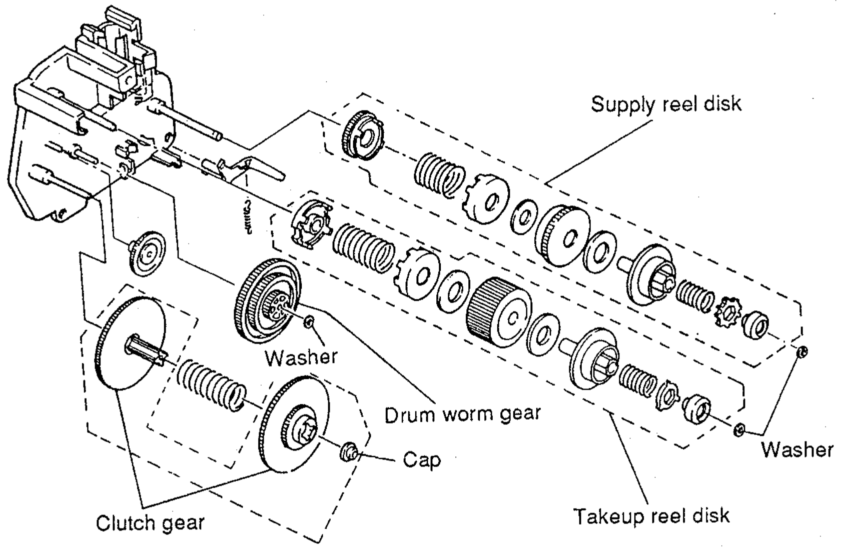


Fig. 10

## 3. Lubricating principal parts

### 3-1 Oiling method

Using an oiler, apply one or two drops of oil (Sonic Slidas oil). If you apply too much oil, it would leak, leading to trouble like slippage. So, wipe off excessive oil with something like gauze soaked with industrial alcohol.

### 3-2 Greasing method

Use a bar or brush to apply grease (Froil). Do not allow grease to contact rubber rollers, paper guides, etc. Wipe off extra grease with gauze soaked with alcohol.

### 3-3 Lubricating intervals

Apply oil or grease to the specified locations every time the specified number of prints have been produced. If lubrication lacks, unusual sounds may come out or malfunction may result from wear of parts.

For the locations to be lubricated, see the exploded views in Chapter 6.

## Adjustment of mechanical parts

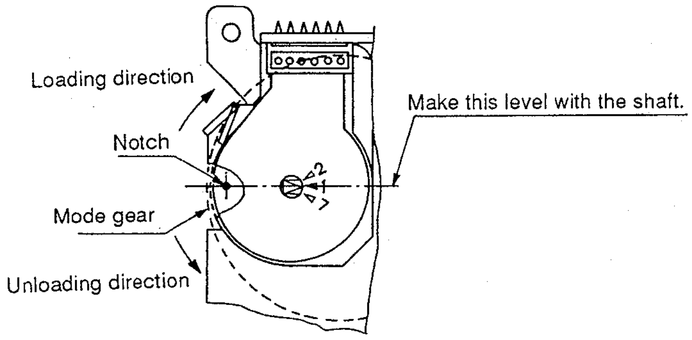
1. Mechanism mode switch

Purpose: To detect the mechanism mode correctly and prevent faulty operation.

Method of adjustment

1) Make sure that the arrow mark on the mechanism mode switch shaft points to the arrow mark of mechanism mode mark 1. The mechanism mode switch shaft must also be level with the hole of the mode gear.
2) If necessary, make adjustment as follows.
   1. Remove the mechanism mode switch/mode motor assembly (see (6) of "Removal of principal components" in Chapter 2).
   2. Turn the mode gear to align the notches.
   3. Turn the gear provided at the back of the mechanism mode switch until the arrow mark provided on the surface points to the arrow mark of mechanism mode mark 1.
   4. Keeping the things in this condition, install the mechanism mode switch/mode motor assembly.
3) Set the ink paper. Make sure that loading/unloading can be performed properly.

Illustration



| Mechanism mode | SW No. |
|---|---|
| Paper feed | 7 |
| STOP | 1 |
| Ink paper feed | 2 |
| Paper transport | 3 |
| Print | 4 |
| Paper discharge | 5 |

- Loading direction 7, 1 --> 5 (head down)
- Unloading direction 5 --> 7, 1 (head up)

# ADJUSTMENT OF ELECTRICAL CIRCUITS

- **Measuring instruments needed for adjustment**
  1) Dual-beam oscilloscope
     - Bandwidth: 10 MHz or more
     - Probe: 10 to 1
  2) Color bar generator
  3) Frequency counter
  4) Vectorscope
  5) DC voltmeter
  6) Monitor TV
- **Connections of the measuring instruments**

  Connect the measuring instruments normally as shown here unless otherwise specified.
  1) Connect the color bar generator to the video input terminal (rear panel) of the printer.
  2) Connect the monitor TV to the video output terminal of the printer.
- **Servicing positions**

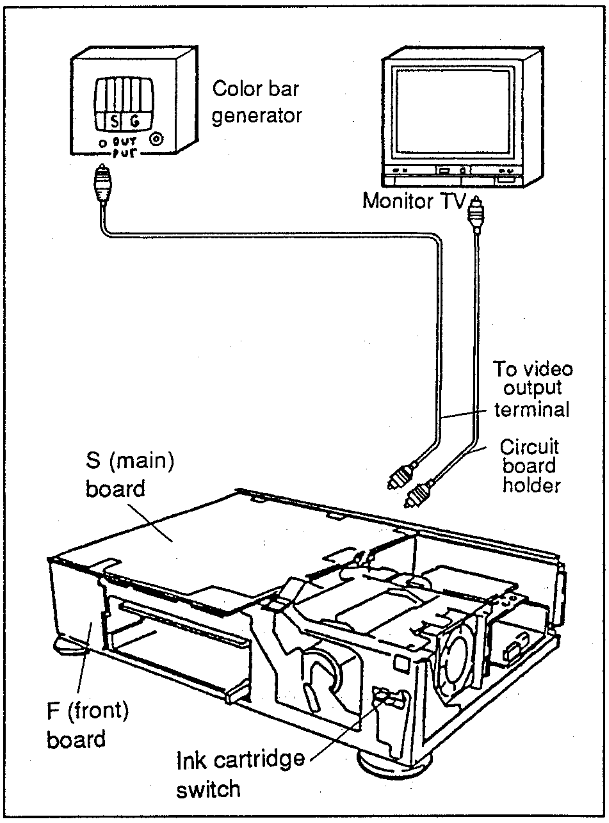
  Make preparation as follows.
  1) Remove the top cover,
  2) Make adjustment from the pattern sides of the circuit boards.
- **Setting up**

  Set up the printer as follows.
  1) POWER: ON
  2) Press S902 (DISPLAY) and make sure the monitor TV displays information as follows.

| | |
|---|---|
| PRINT MODE | NORM<br>V.GAMMA |
| PRINT COUNT | 1 |
| ONE TOUCH PRINT | OFF |
| MEMORY FRAME 1 | N |
| MULTI MODE | OFF |
| PICTURE | STD |
| INPUT | VIDEO |

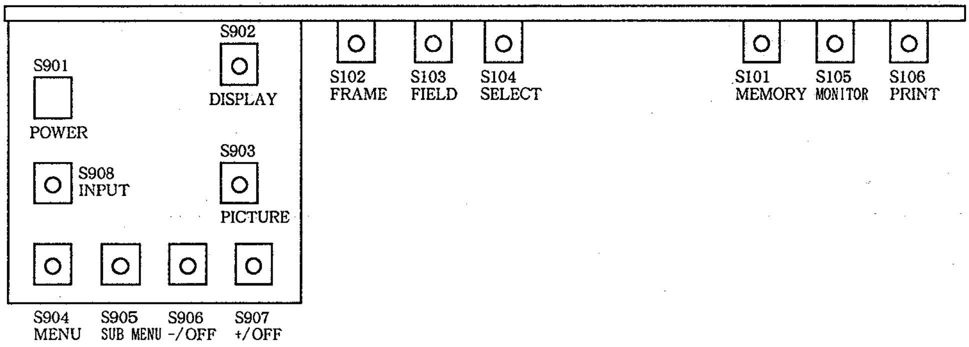
If some items vary, display MENU and set up as shown above.

3) Ink cassette: Removed
4) Warm up: About 1 minute

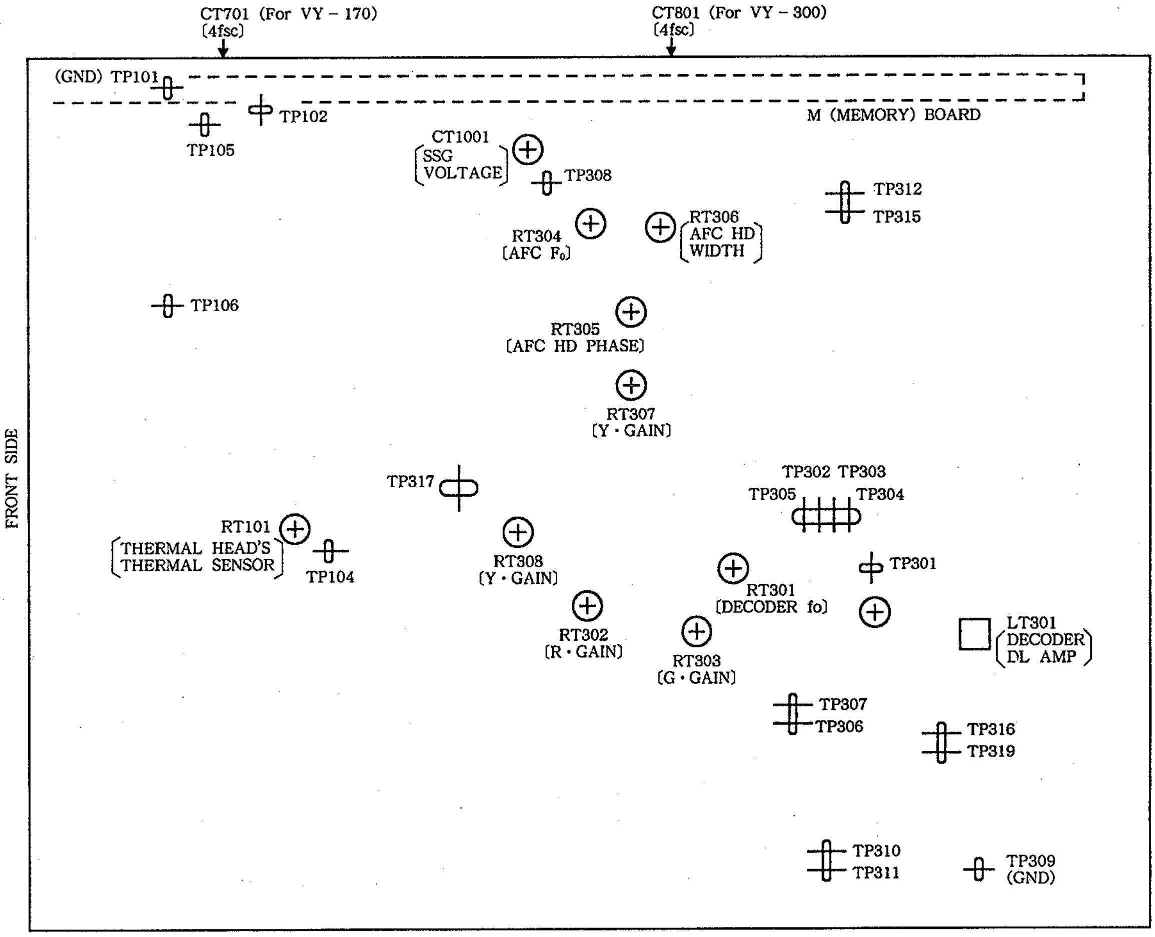

Color bar generator
S G
OUT PUT
Monitor TV
To video output terminal
Circuit board holder
S (main) board
F (front) board
Ink cartridge switch

5) Settings of rear panel switches
   S1101 SYNC 75Ω/Hi switch: 75Ω
   S1102 SYNC / switch:
   S1103 RGB 75Ω/Hi switch: 75Ω
   * S1104 Front control switch: ON
   * S1104 is provided only with the VY-300.

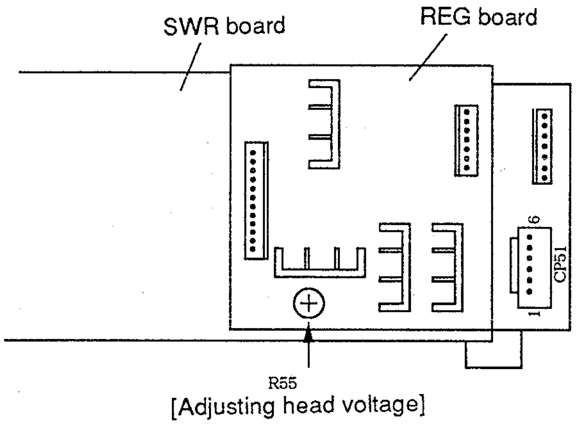
- **Layout of parts of circuit boards**
  1) F (front) board [Components side]
  2) S (main) board [Solder side]
  3) REG (regulator) board


S901
POWER
S902
DISPLAY
S908
INPUT
S903
PICTURE
S904
MENU
S905
SUB MENU
S906
-/OFF
S907
+/OFF
S102
FRAME
S103
FIELD
S104
SELECT
S101
MEMORY
S105
MONITOR
S106
PRINT

2) S (main) board


CT701 (For VY - 170)
[4fsc]
CT801 (For VY - 300)
[4fsc]
(GND) TP101
TP102
TP105
M (MEMORY) BOARD
CT1001
SSG VOLTAGE
TP308
TP312
TP315
RT304
[AFC F0]
RT306
AFC HD WIDTH
TP106
RT305
[AFC HD PHASE]
RT307
[Y · GAIN]
FRONT SIDE
TP317
TP302 TP303
TP305
TP304
RT101
THERMAL HEAD'S THERMAL SENSOR
TP104
RT308
[Y · GAIN]
RT301
[DECODER fo]
TP301
RT302
[R · GAIN]
RT303
[G · GAIN]
LT301
DECODER DL AMP
TP307
TP306
TP316
TP319
TP310
TP311
TP309
(GND)

3) REG (regulator) board

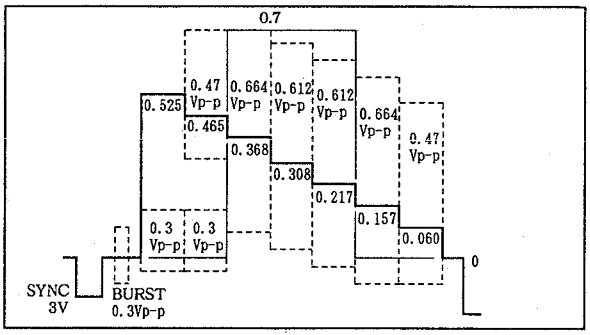

SWR board
REG board
CP51
6
1
R55
[Adjusting head voltage]

**Setting the reference signal**

The video signal supplied from the color bar generator will be used as the reference signal. Adjust the output level of the oscilloscope to put the video output signal within the required range.

[Setting the luminance component]

Connect the color bar generator output directly to the oscilloscope and adjust the signal level as shown below (terminated with 75Ω). (If no termination resistor is used, double the signal level.)


0.7
0.47 Vp-p
0.664 Vp-p
0.612 Vp-p
0.612 Vp-p
0.664 Vp-p
0.47 Vp-p
0.525
0.465
0.368
0.308
0.217
0.157
0.060
0
0.3 Vp-p
0.3 Vp-p
SYNC 3V
BURST 0.3Vp-p

[Setting the chroma components]

Connect the color bar generator output to the vectorscope and adjust the phase and amplitude of the burst and chroma signals properly.

(Initialize the vectorscope as follows.

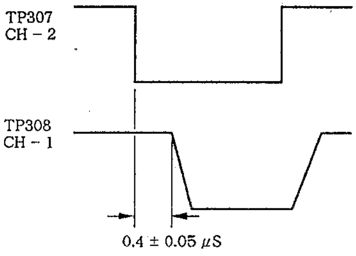
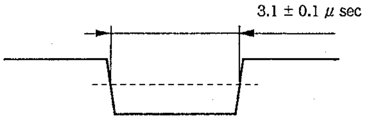
For amplitude, CAL: OFF

For phase, burst: 180°C)

## 1. Adjustments (Make adjustment in the order described below.)

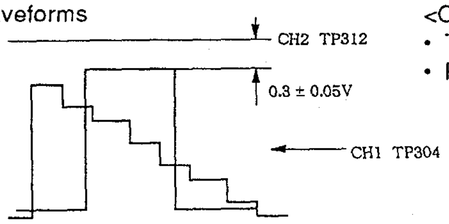
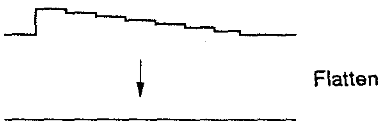
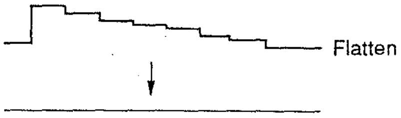
- **Initialization**

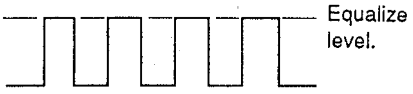
1) Short TP105 and TP106 on the S (main) board.
2) Depress S904 (MENU switch) on the F (front) board --> INIT MENU appears.
3) Press S904 (MENU switch) to set the cursor to "INIT ADJ".
4) Depress S905 (SUB MENU switch) on the F (front) board. --> INIT ADJ screen appears (make sure the value is +32).

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 0 | Thermal head's thermal sensor initialization | • Apply no signal | • Monitor screen (OSD) | • RT101 (S-board) | 1) Keeping S105 (MONITOR switch) on the S (main) board pressed, press S902 (DISPLAY switch) on the F (front) board. --> OSD indication (Dα) appears on the monitor screen.<br>2) Short TP104 and TP101 (GND).<br>3) Turn RT101 until OSD indication "D10" changes to "D9".<br>4) Remove the shorting between TP104 and TP101.<br>5) Press S902 (DISPLAY switch) on the F (front) board to turn off OSD indication. |
| 1 | AFC Fo | • Apply no signal. | • TP318 (S-board) | • RT304 (S-board) | 1) Connect the frequency counter to TP318.<br>2) Adjust RT304 so that the frequency counter reads 15,600±20 Hz. |
| 2 | AFC HD phase | • Apply the full color bar signal. | • CH-1: TP308 (S-board)<br>• CH-2: TP307 (S-board) | • RT305 (S-board) | 1) Connect the oscilloscope to TP308 and TP307.<br>2) Set the phase from the fall of the waveform at TP307 to the fall at TP308, to 0.2 ±0.05 µs. |
|  | Waveforms<br><br> | <Oscilloscope setting><br>• Trigger: TP308 (S-board)<br>• CH-1: 2 V/div.<br>• CH-2: 0.2 V/div.<br>0.1 µsec/div. |  |  |  |
| 3 | AFC HD width | • Apply the full color bar signal. | • TP308 (S-board) | • RT306 (S-board) | 1) Connect the oscilloscope to TP308.<br>2) Adjust RT306 so that the HD pulse width becomes 3.1±0.1 µs. |
|  | Waveform<br><br> | <Oscilloscope setting><br>• Trigger: Self-trigger<br>• Range: 2 V/div., 1 µs/div. |  |  |  |

- **Setting input mode**

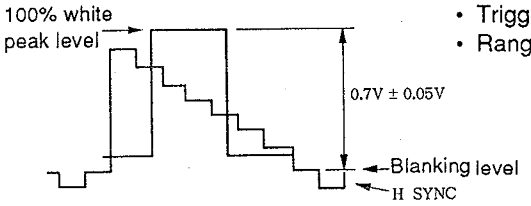
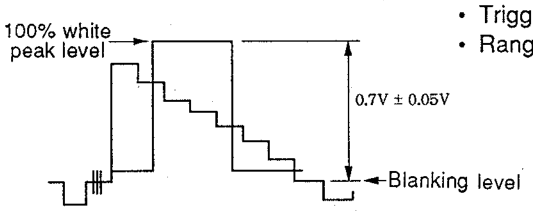
1) Press S908 (INPUT switch) on the F (front) board and select "VIDEO".

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 4 | Brightness | • Apply the half color bar (black & white) signal. | • CH-1: TP315<br>• CH-2: TP305 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "BRIGHT".<br>2) Measure DC level at TP315.<br>3) Match the DC level at TP305 with that at TP315 using S906 [– switch] and S907 [+ switch] (error: ±0.05 V). |
| 5 | Contrast | • Apply the black & white half color bar signal. | • CH-1: TP304<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "CONTRAST".<br>2) Align the CH-1 and CH-2 DC levels (in the GND range).<br>3) Reduce the difference between the 100% white peak level at TP304 and the DC level at TP312 within 0.3 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
|  | Waveforms  | <Oscilloscope setting><br>• Trigger: TP308<br>• Range: 0.5 V/div. 5 μs/div. |  |  |  |
| 6 | G gain | • Apply the full color bar signal (black & white). | • CH-1: TP304<br>• CH-2: TP303 (S-board) | • RT303 (S-board) | 1) Set CH-2 "INV" and ADD mode.<br>2) Flatten the waveform. |
|  | Waveforms  | <Oscilloscope setting><br>• Trigger: TP308<br>• CH-1: 20 mV/div.<br>CH-2: 20 mV/div.<br>10 μs/div. |  |  |  |
| 7 | B gain | • Apply the full color bar signal (black & white). | • CH-1: TP304<br>• CH-2: TP302 (S-board) | • RT302 (S-board) | 1) Set CH-2 "INV" and ADD mode.<br>2) Flatten the waveform. |
|  | Waveforms  | <Oscilloscope setting><br>• Trigger: TP308<br>• CH-1: 20 mV/div.<br>CH-2: 20 mV/div.<br>10 μs/div. |  |  |  |
| 8 | Decoder f0 | • Apply no signal. | • TP301 (S-board) | • RT301 (S-board) | 1) Short TP310 and TP311.<br>2) Connect a frequency counter to TP301.<br>3) Adjust RT301 so that the frequency counter reads 4,433,618 ±30 Hz.<br>4) Remove the shorting. |
| 9 | 4fsc | • Apply the full color bar signal. | • TP102 (S-board) | • CT701<br>• CT801 (Note-1) | 1) Connect a frequency counter to TP102.<br>2) Adjust CT701 or CT801 so that the frequency counter reads 17,734,600 +30/-10 Hz. |
|  | (Note-1)<br>The adjustment points are different for the VY-170 and VY-300.<br>VY-170: CT701 (M1-board)<br>VY-300: CT801 (M2-board) |  |  |  |  |

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">10</td><td>Decoder DL Amp</td><td>• Apply the full color bar signal.</td><td>• TP302 (S-board)</td><td>• LT301<br>• RT310 (S-board)</td><td rowspan="2">1) Adjust LT301 and RT310 to flatten the peaks of the R signal.</td></tr>
<tr><td colspan="4">Waveforms<br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div.</td></tr>
<tr><td rowspan="2">11</td><td>Color</td><td>• Apply the full color bar signal.</td><td>• TP302 (S-board)</td><td>• S906 [–] button<br>• S907 [+] button<br>• RT310 (S-board)</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "COLOR".<br>2) Set the COLOR level to "+32".<br>3) Short TP317 and TP101 (GND).<br>4) Equalize level at both ends of the waveform using S906 [– switch].<br>5) Equalize peak level of the waveform using RT310.<br>6) Remove the shorting.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div.</td></tr>
</table>

- **Setting mode**

1) Press S105 (MONITOR) on the S (main) board and make sure the lamp of the button is out.

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">12</td><td>Y gain (Yc-Y)</td><td>• Apply the half color bar signal (black & white).</td><td>• TP316 (S-board)</td><td>• RT307 (S-board)</td><td rowspan="2">1) Connect the oscilloscope to TP316.<br>2) Adjust the 100% white peak level at 0.7 ± 0.05 Vp-p above the blanking level.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 10 mV/div.<br>10 µs/div.</td></tr>
<tr><td rowspan="2">13</td><td>Y gain (video output)</td><td>• Apply the half color bar signal (black & white).</td><td>• Video output terminal (terminated with 75Ω)</td><td>• RT308 (S-board)</td><td rowspan="2">1) Connect the oscilloscope to the video output terminal.<br>2) Adjust the 100% white peak level at 0.7 ± 0.05 Vp-p above the blanking level.<br>✻ Turn RT308 fully counterclockwise, then turn it clockwise for adjustment.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 10 mV/div.<br>10 µs/div.</td></tr>
</table>

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 14 | SSG voltage | • Apply the half color bar signal (black & white) | • TP103<br>(S-board) | • CT1001<br>(SSG-board) | 1) Connect the oscilloscope to TP103.<br>2) Set the DC level at TP103 to 4 ±0.2 V. |
|  |  |  |  |  |  |

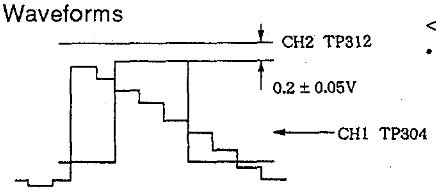
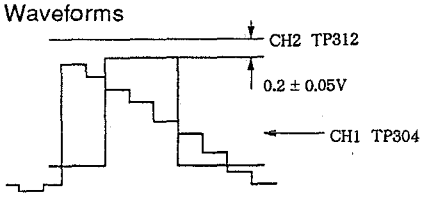
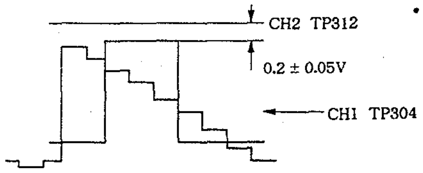
- **Setting input mode**

1) Press S908 (INPUT switch) on the F (front) board and select "RGB".

## 1. Using a color bar generator

Apply a half color signal to the "SYNC IN" terminal on the rear panel. Branch the input signal and change the connection terminals for each adjustment.

- B input gain adjustment: Apply the half color bar signal to the B-IN terminal (rear panel).
- G input gain adjustment: Apply the half color bar signal to the G-IN terminal (rear panel).
- R input gain adjustment: Apply the half color bar signal to the R-IN terminal (rear panel).

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 15 | B input gain | • Apply the half color bar signal. | • CH-1: TP304<br>• CH-2: TP312<br>(S-board) | • S906<br>[–] button<br>• S907<br>[+] button | 1) Press S905 (SUB MENU switch) and select "B GAIN".<br>2) Reduce the difference between the peak level at TP304 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
|  | Waveforms |  | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |
| 16 | G input gain | • Apply the half color bar signal. | • CH-1: TP303<br>• CH-2: TP312<br>(S-board) | • S906<br>[–] button<br>• S906<br>[+] button | 1) Press S905 (SUB MENU switch) and select "G GAIN."<br>2) Reduce the difference between the peak level at TP303 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
|  | Waveforms |  | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |
| 17 | R input gain | • Apply the half color bar signal. | • CH-1: TP302<br>• CH-2: TP312<br>(S-board) | • S906<br>[–] button<br>• S907<br>[+] button | 1) Press S905 (SUB MENU switch) and select "R GAIN."<br>2) Reduce the difference between the peak level at TP302 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].<br>3) Press S902 (DISPLAY switch).<br>4) Remove the shorting across TP105 and TP106. |
|  | Waveforms |  | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |

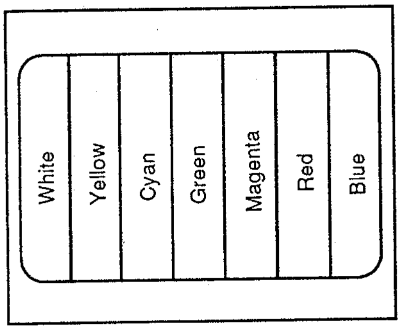
## 2. Using an RGB color bar generator

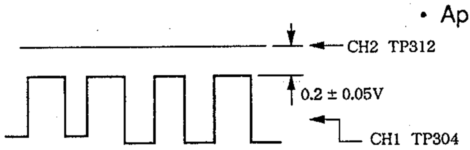
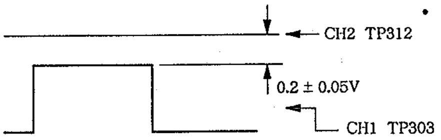
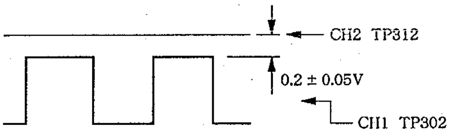
- **Connections**

Connect the color bar generator to the rear-panel terminal. Its RGB output level should be 0.7 Vp-p/75Ω and C.SYNC level 0.3 V to TTL level/75Ω.

Note: Some color bar generators have the output level of 0.5 Vp-p.

- **Reference input signal**



<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">18</td><td>B input gain</td><td>• Apply the RGB signal.</td><td>• CH-1: TP304<br>• CH-2: TP312 (S-board)</td><td>• S906 [–] button<br>• S907 [+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "B GAIN."<br>2) Reduce the difference between the peak level at TP304 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].</td></tr>
<tr><td colspan="4">Waveforms<br><Oscilloscope setting><br>• Apply trigger to TP308.<br> </td></tr>
<tr><td rowspan="2">19</td><td>G input gain</td><td>• Apply the RGB signal.</td><td>• CH-1: TP303<br>• CH-2: TP312 (S-board)</td><td>• S906 [–] button<br>• S906 [+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "G GAIN."<br>2) Reduce the difference between the peak level at TP303 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].</td></tr>
<tr><td colspan="4">Waveforms<br><Oscilloscope setting><br>• Apply trigger to TP308.<br> </td></tr>
<tr><td rowspan="2">20</td><td>R input gain</td><td>• Apply the RGB signal.</td><td>• CH-1: TP302<br>• CH-2: TP312 (S-board)</td><td>• S906 [–] button<br>• S907 [+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "R GAIN."<br>2) Reduce the difference between the peak level at TP302 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].<br>3) Press S902 (DISPLAY switch).<br>4) Remove the shorting across TP105 and TP106.</td></tr>
<tr><td colspan="4">Waveforms<br><Oscilloscope setting><br>• Apply trigger to TP308.<br> </td></tr>
</table>

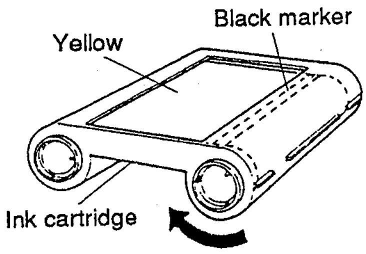
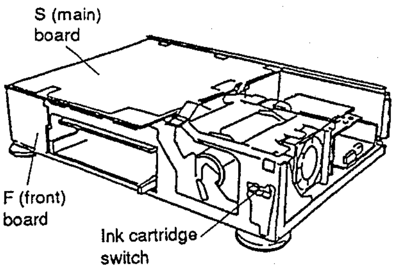
| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 21 | Head voltage | • Apply no signal. | • CP51-1<br>• CP51-6 (SWR-board) | • R55 (REG board) | 1) Connect a DC voltmeter to pins 1 and 6 of CP51 on the SWR board.<br>2) Read the resistance value given on the thermal head. The table given at left indicates the voltage value corresponding to the resistance read.<br>3) Adjust R55 so that the reading of the DC voltmeter is equal to the value given from the table.<br>Note:<br>(1) After this adjustment, print the color bars. If colors are too thick or tails are produced, lower the voltage by about 0.3 V. If colors are thin, raise the voltage by about 0.3 V.<br>(2) To print with the front panel removed, hold the ink cartridge door SW and ink cartridge firmly by hand. |

| Head resistance (Ω) | Voltage (V) |
|---|---|
| 1804~1815 | 17.9 |
| 1816~1835 | 18.0 |
| 1836~1855 | 18.1 |
| 1856~1876 | 18.2 |
| 1877~1896 | 18.3 |
| 1897~1917 | 18.4 |
| 1918~1938 | 18.5 |
| 1939~1959 | 18.6 |
| 1960~1980 | 18.7 |
| 1981~2001 | 18.8 |
| 2002~2022 | 18.9 |
| 2023~2043 | 19.0 |
| 2044~2065 | 19.1 |
| 2066~2086 | 19.2 |
| 2087~2108 | 19.3 |
| 2109~2130 | 19.4 |
| 2131~2151 | 19.5 |
| 2152~2173 | 19.6 |
| 2174~2196 | 19.7 |
| 2197~2218 | 19.8 |
| 2219~2240 | 19.9 |
| 2241~2262 | 20.0 |
| 2263~2285 | 20.1 |
| 2286~2296 | 20.2 |

**Mechanism Sensor Circuit Board Adjustment**

o Fault due to incomplete adjustment

The paper is discharged without being printed, the ink is normal while the INK LED is flashing, but the roll of ink paper is fed without printing.

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">22</td><td>Ink Sensor Level Adjustment</td><td>• No input signal.</td><td>• PG1-7 (Mecha. Sensor Board)</td><td>• RT2001 (Mech. Sensor Board)</td><td rowspan="2">1) Take up the roll of ink paper in the cartridge until the black marker cannot be seen. (Fig. 1)<br>2) Set the printer to the servicing position. (See page 4-1)<br>3) Place a sheet of paper, etc. on the thermal head to shut off the light.<br>4) Insert the ink cartridge into the printer, and while holding the cartridge and ink cartridge door switch, turn the power on. (Fig. 2)<br>5) Press the PRINT switch after the READY indicator lights to initialize the ink paper. (Perform adjustment while the ink paper is initialized.)<br>6) Connect a DC voltmeter to PG1 pin 7 and adjust it so the voltage is 3.8-3.9V when the yellow and magenta ink sections are being fed. Then check that the voltage is 1.5V or less when the cyan ink section is being fed (when this can be confirmed, adjustment is completed).<br>If the above cannot be confirmed, adjust the voltage when the cyan section is being fed is 1.4-1.5V. (RT2001)<br>7) After the voltage has been adjusted at the cyan ink section, perform the check in step 6) again.</td></tr>
<tr><td colspan="4">– Ink initializing state –<br>The state in which only the roll of ink paper is fed while the head is lowered slightly to locate the start of the ink paper.<br> <br>Fig. 1<br> <br>Fig. 2</td></tr>
</table>

### Accumulated Print Counter Display

1) Connect a monitor TV and turn the power on.
2) Press the SELECT switches (S906 [–], S907 [+]) and hold them, then press the DISPLAY switch (S902) so the OSD menu appears on the TV screen.

OSD menu

```
                        XXXXX
PRINT  MODE              NORM
                      V.GAMMA


PRINT COUNT
```

Displays the accumulated counter value.

3) Press the DISPLAY switch (S902) again to switch off the display.

### Back-up ROM

- The following data is stored in the EEPROM (IC103 BR9021 on the S (main) board) for back-up.
  - ① Accumulated print counter
  - ② Adjustment data (INIT ADJ)
  - ③ User setting status
- Initializing the back-up ROM
  There are two ways to initialize the back-up ROM (IC103).
  - (1) ROM INIT ... Initializes all the data in ① - ③ above (the data is erased).

    Caution: Do not use this initialization for re-adjustment.
  - (2) CNT CTR ... Clears only the data in ① above.

    Caution: Perform this initialization when the thermal head is replaced.

- Back-up ROM initialization procedure

1) Connect a monitor TV and turn the power on.
2) Press the DISPLAY switch (S902) to switch off the OSD.
3) Short TP1105 and TP1106 on the S (main) circuit board.
4) Press the MENU switch (S904).

OSD

```
INIT MENU
 → ROM INIT ...............................Clears all data.
   INIT ADJ ...............................Clears the adjustment data
   CNT CLR ................................Clears the accumulated
                                           counter value.
   DEMO               DI ..................Note: Check DI is displayed.
```

※ To clear all data, press the MENU switch (S904) to align the arrow with ROM INIT.

※ To clear only the counter value, press the MENU switch (S904) to align the arrow with CNT CLR.

5) Press the SUB MENU switch (S905).
6) Press the MONITOR switch (S105) and DISPLAY switch (S902) simultaneously to clear the data.
7) When the INIT MENU is restored, press the DISPLAY switch (S902) and remove the short-circuit between TP1105 and TP1106.

- When DEMO DI is not displayed:

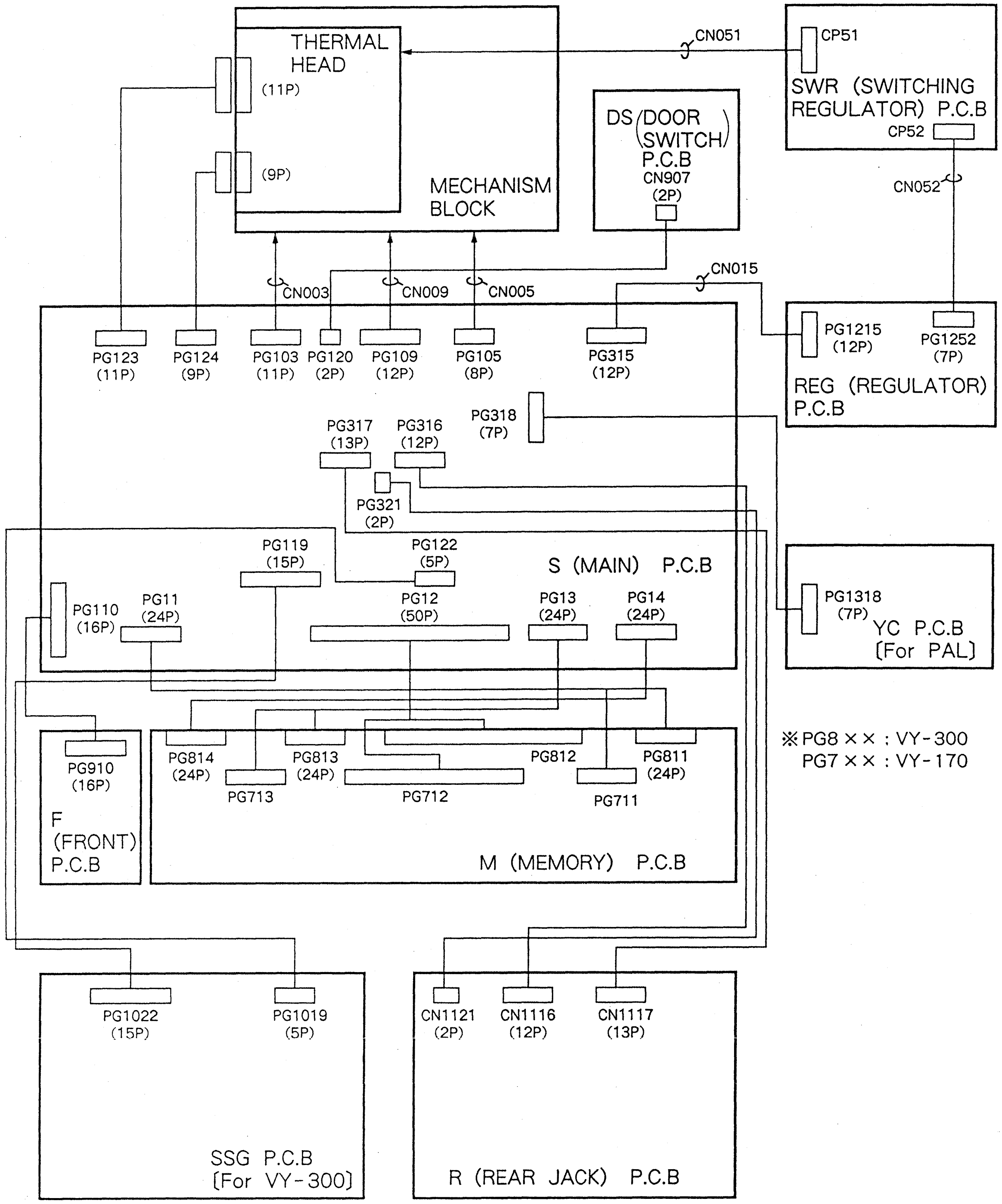
1) Display the INIT MENU and align the arrow with DEMO, then press the SUB MENU switch (S905).
2) Press the [+] switch (S907) to display DEMO DI.
3) Press the DISPLAY switch (S902).

*CHAPTER 5*

# *SCHEMATIC &*
# *CIRCUIT BOARD DIAGRAMS*

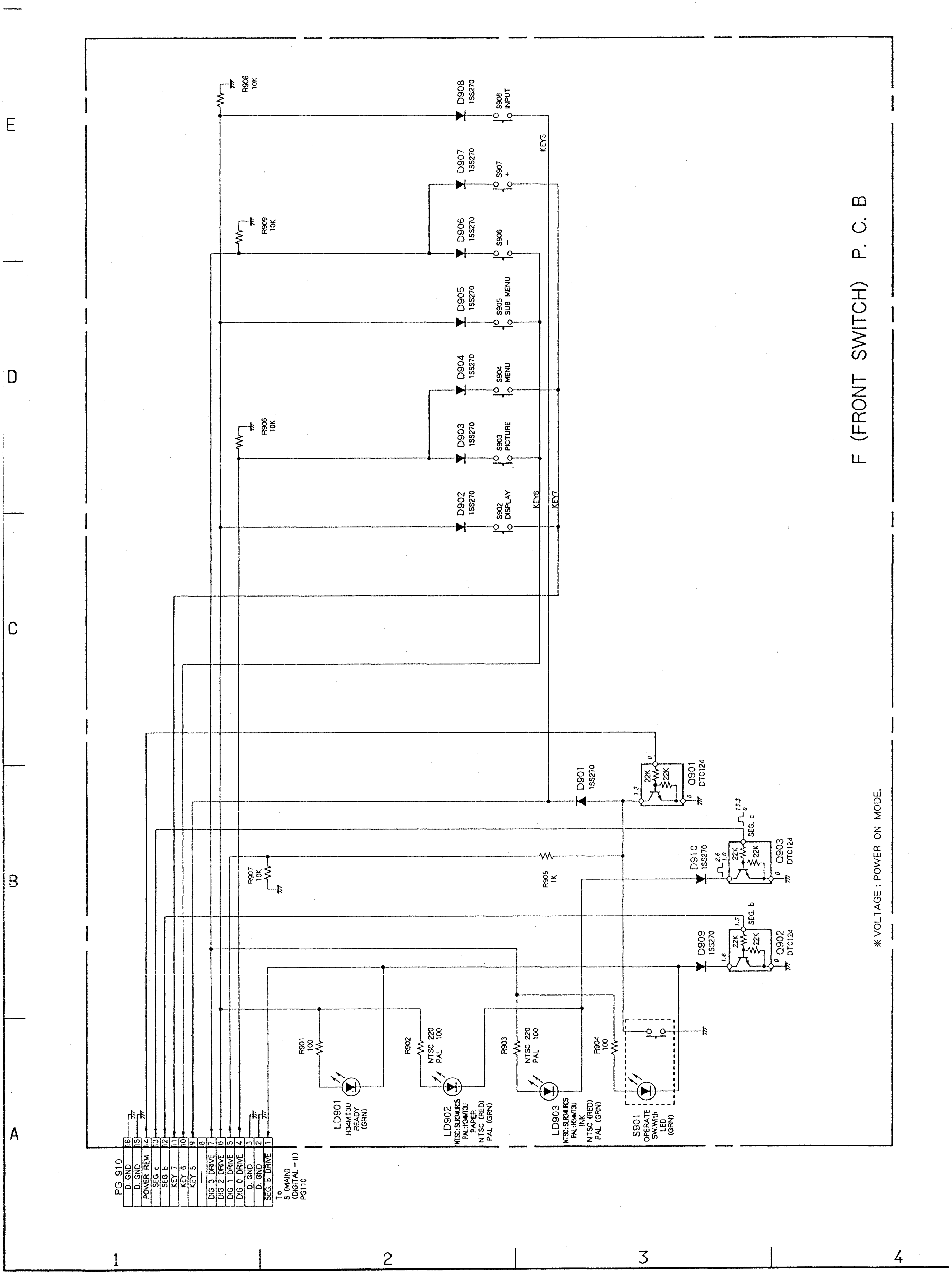
MODEL : VY-170(A), (E)
VY-300(A), (E)

# INTERNAL WIRING DIAGRAM

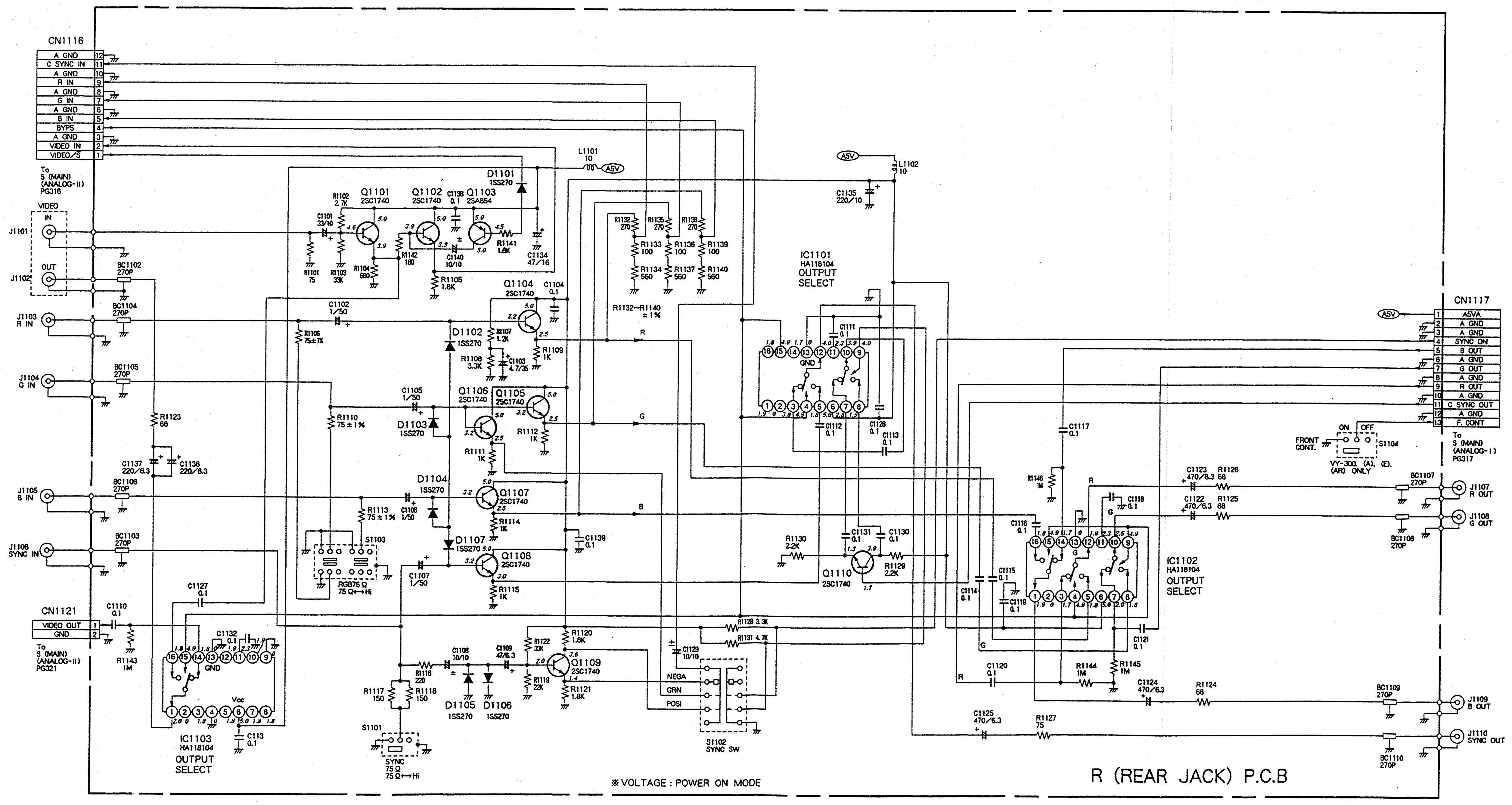

THERMAL HEAD
(11P)
(9P)
MECHANISM BLOCK
CN051
CP51
SWR (SWITCHING REGULATOR) P.C.B
CP52
CN052
DS (DOOR SWITCH) P.C.B
CN907 (2P)
CN003
CN009
CN005
CN015
PG123 (11P)
PG124 (9P)
PG103 (11P)
PG120 (2P)
PG109 (12P)
PG105 (8P)
PG315 (12P)
PG1215 (12P)
PG1252 (7P)
REG (REGULATOR) P.C.B
PG317 (13P)
PG316 (12P)
PG318 (7P)
PG321 (2P)
PG119 (15P)
PG122 (5P)
S (MAIN) P.C.B
PG110 (16P)
PG11 (24P)
PG12 (50P)
PG13 (24P)
PG14 (24P)
PG1318 (7P)
YC P.C.B [For PAL]
PG910 (16P)
F (FRONT) P.C.B
PG814 (24P)
PG813 (24P)
PG812
PG811 (24P)
PG713
PG712
PG711
M (MEMORY) P.C.B
PG1022 (15P)
PG1019 (5P)
SSG P.C.B [For VY-300]
CN1121 (2P)
CN1116 (12P)
CN1117 (13P)
R (REAR JACK) P.C.B

※PG8×× : VY-300
PG7×× : VY-170

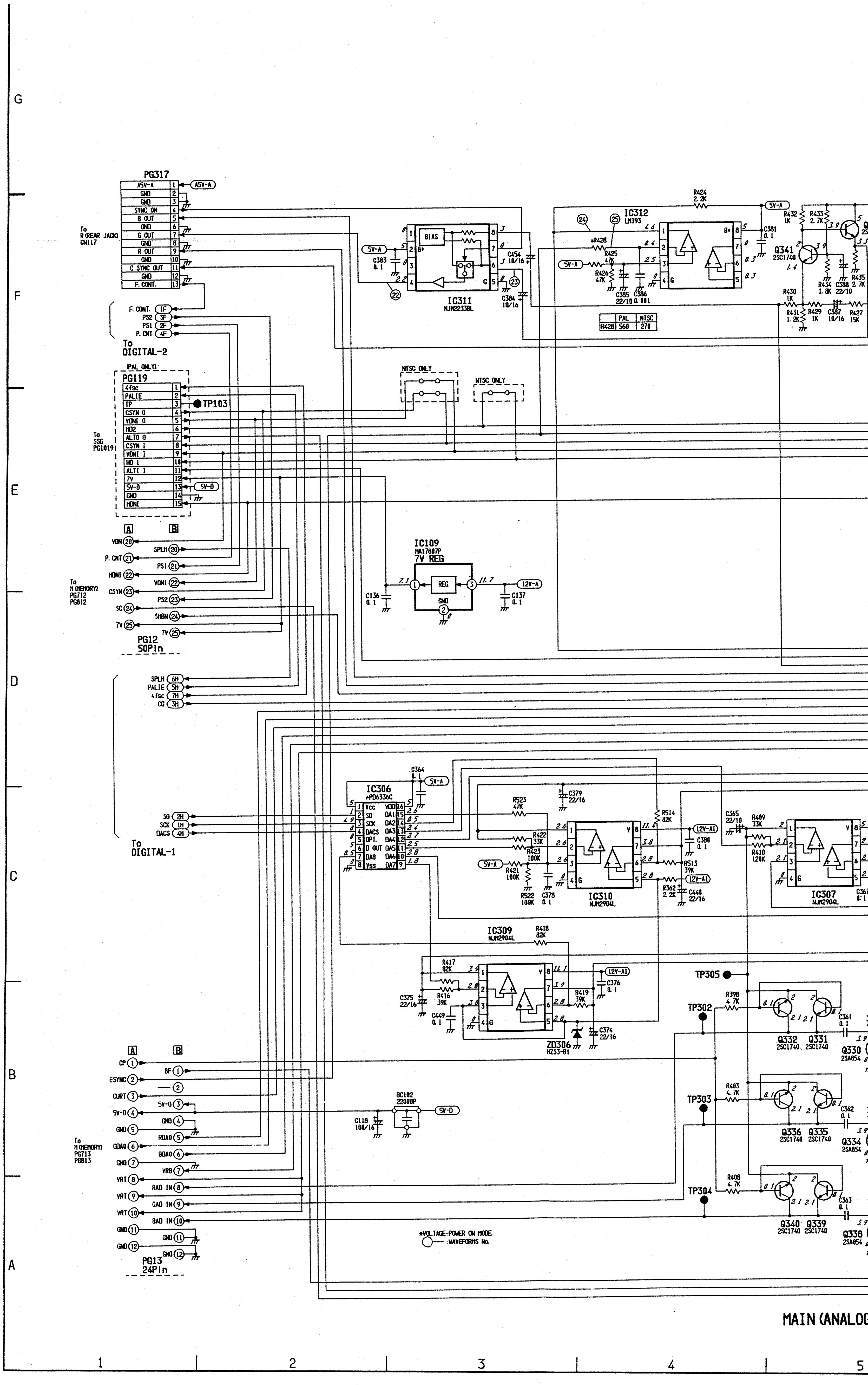
# F (FRONT) SCHEMATIC DAIGRAM

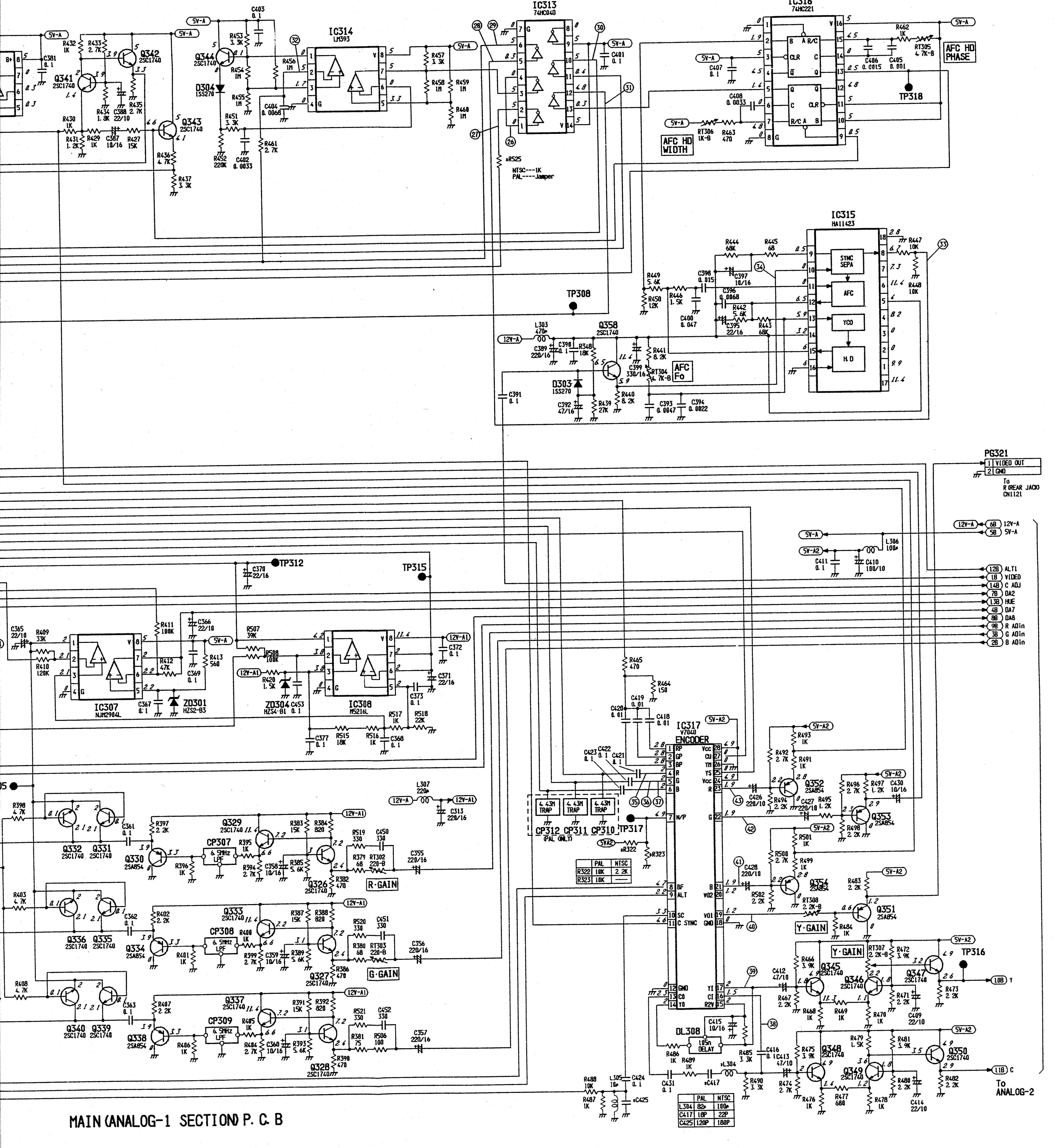

F (FRONT SWITCH) P. C. B
R908 10K
D908 1SS270
S908 INPUT
KEY5
D907 1SS270
S907 +
R909 10K
D906 1SS270
S906 -
D905 1SS270
S905 SUB MENU
D904 1SS270
S904 MENU
R906 10K
D903 1SS270
S903 PICTURE
D902 1SS270
S902 DISPLAY
KEY6
KEY7
D901 1SS270
Q901 DTC124
22K
22K
1.3
0
D910 1SS270
Q903 DTC124
SEG. c
13.3
2.6
1.0
D909 1SS270
Q902 DTC124
SEG. b
1.5
1.6
R907 10K
R905 1K
R901 100
R902 NTSC 220 PAL 100
R903 NTSC 220 PAL 100
R904 100
LD901 H34MT3U READY (GRN)
LD902 NTSC:SLR34URCS PAL:H34MT3U PAPER NTSC (RED) PAL (GRN)
LD903 NTSC:SLR34URCS PAL:H34MT3U INK NTSC (RED) PAL (GRN)
S901 OPERATE SW.With LED (GRN)
PG 910
16 D. GND
15 D. GND
14 POWER REM
13 SEG c
12 SEG b
11 KEY 7
10 KEY 6
9 KEY 5
8 —
7 DIG 3 DRIVE
6 DIG 2 DRIVE
5 DIG 1 DRIVE
4 DIG 0 DRIVE
3 D. GND
2 D. GND
1 SEG. b DRIVE
To S (MAIN) (DIGITAL – II) PG110
※ VOLTAGE : POWER ON MODE.
E
D
C
B
A
1
2
3
4

# R (REAR JACK) SCHEMATIC DIAGRAM


CN1116
12 A GND
11 C SYNC IN
10 A GND
9 R IN
8 A GND
7 G IN
6 A GND
5 B IN
4 BYPS
3 A GND
2 VIDEO IN
1 VIDEO/S
To S (MAIN) (ANALOG-II) PG316
VIDEO
IN
OUT
J1101
J1102
J1103 R IN
J1104 G IN
J1105 B IN
J1106 SYNC IN
BC1102 270P
BC1104 270P
BC1105 270P
BC1106 270P
BC1103 270P
R1123 68
C1137 220/6.3
C1136 220/6.3
L1101 10
A5V
D1101 1SS270
Q1101 2SC1740
Q1102 2SC1740
C1138 0.1
Q1103 2SA854
R1102 2.7K
C1101 33/10
R1101 75
R1103 33K
R1104 680
R1142 180
C1140 10/10
R1105 1.8K
R1141 1.8K
C1134 47/16
Q1104 2SC1740
C1104 0.1
C1102 1/50
R1106 75±1%
D1102 1SS270
R1107 1.2K
R1108 3.3K
C1103 4.7/35
R1109 1K
C1105 1/50
D1103 1SS270
R1110 75 ± 1%
Q1106 2SC1740
Q1105 2SC1740
R1111 1K
R1112 1K
D1104 1SS270
R1113 75 ± 1%
C1106 1/50
Q1107 2SC1740
R1114 1K
D1107 1SS270
Q1108 2SC1740
R1115 1K
C1107 1/50
C1139 0.1
S1103
RGB75 Ω
75 Ω↔Hi
R1132 270
R1135 270
R1138 270
R1133 100
R1136 100
R1139 100
R1134 560
R1137 560
R1140 560
R1132~R1140 ± 1%
R
G
B
L1102 10
C1135 220/10
IC1101 HA118104 OUTPUT SELECT
GND
C1111 0.1
C1112 0.1
C1128 0.1
C1113 0.1
CN1121
1 VIDEO OUT
2 GND
To S (MAIN) (ANALOG-II) PG321
C1110 0.1
R1143 1M
C1127 0.1
C1132 0.1
Vcc
C113 0.1
IC1103 HA118104 OUTPUT SELECT
R1116 220
R1117 150
R1118 150
C1108 10/10
C1109 47/6.3
D1105 1SS270
D1106 1SS270
R1122 33K
R1119 22K
R1120 1.8K
R1121 1.8K
Q1109 2SC1740
S1101
SYNC 75 Ω 75 Ω↔Hi
R1128 3.3K
R1131 4.7K
C1129 10/10
NEGA
GRN
POSI
S1102 SYNC SW
R1130 2.2K
C1131 0.1
C1130 0.1
Q1110 2SC1740
R1129 2.2K
C1114 0.1
C1115 0.1
C1119 0.1
C1116 0.1
C1117 0.1
R1146 1M
C1118 0.1
IC1102 HA118104 OUTPUT SELECT
C1121 0.1
C1120 0.1
R1144 1M
R1145 1M
C1123 470/6.3
R1126 68
C1122 470/6.3
R1125 68
C1124 470/6.3
R1124 68
C1125 470/6.3
R1127 75
BC1107 270P
BC1108 270P
BC1109 270P
BC1110 270P
J1107 R OUT
J1108 G OUT
J1109 B OUT
J1110 SYNC OUT
CN1117
1 A5VA
2 A GND
3 A GND
4 SYNC ON
5 B OUT
6 A GND
7 G OUT
8 A GND
9 R OUT
10 A GND
11 C SYNC OUT
12 A GND
13 F. CONT
To S (MAIN) (ANALOG-I) PG317
ON
OFF
FRONT CONT.
S1104
VY-300, (A), (E), (AR) ONLY
※VOLTAGE : POWER ON MODE
R (REAR JACK) P.C.B
E
D
C
B
A
1
2
3
4
5
6
7
8

# MAIN (ANALOG-1 SECTION) SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
PG317
A5V-A
GND
SYNC ON
B OUT
G OUT
R OUT
C SYNC OUT
F. CONT.
To R (REAR JACK) CN117
F. CONT. 1F
PS2 3F
PS1 2F
P. CNT 4F
To DIGITAL-2
(PAL ONLY)
PG119
4fsc
PALIE
TP
CSYN 0
VDNI 0
HD2
ALTO 0
CSYN 1
VDNI 1
HD 1
ALTI 1
7V
5V-D
GND
HDNI
TP103
To SSG PG1019
IC311
NJM2233BL
BIAS
IC312
LM393
R424 2.2K
R428
R425 47K
R426 47K
C385 22/10
C386 0.001
C381 0.1
C383 0.1
C454 10/16
C384 10/16
PAL NTSC
R428 560 270
Q341 2SC1740
R432 1K
R433 2.7K
R430 1K
R431 1.2K
R429 1K
C387 10/16
R427 15K
R434 1.8K
C388 22/10
R435 2.7K
NTSC ONLY
IC109
HA17807P
7V REG
REG
GND
C136 0.1
C137 0.1
12V-A
5V-A
5V-D
VDNI 20
P. CNT 21
HDNI 22
CSYN 23
SC 24
7V 25
SPLH 20
PS1 21
VDNI 22
PS2 23
SHBN 24
7V 25
To M (MEMORY) PG712 PG812
PG12 50Pin
SPLH 6H
PALIE 5H
4fsc 7H
CG 3H
SO 2H
SCK 1H
DACS 4H
To DIGITAL-1
IC306
μPD6336C
Vcc VDD
SO DA1
SCK DA2
DACS DA3
OPT. DA4
D OUT DA5
DA8 DA6
Vss DA7
C364 0.1
C379 22/16
R523 47K
R514 82K
R422 33K
R423 100K
R421 100K
R522 100K
C378 0.1
IC310
NJM2904L
12V-A1
C380 0.1
R513 39K
R362 2.2K
C440 22/16
C365 22/10
R409 33K
R410 120K
IC307
NJM2904L
IC309
NJM2904L
R418 82K
R417 82K
R416 39K
R419 39K
C375 22/16
C449 0.1
C376 0.1
C374 22/16
ZD306
HZS3-B1
TP305
TP302
TP303
TP304
R398 4.7K
R403 4.7K
R408 4.7K
Q332 2SC1740
Q331 2SC1740
Q330 2SA854
Q336 2SC1740
Q335 2SC1740
Q334 2SA854
Q340 2SC1740
Q339 2SC1740
Q338 2SA854
C361 0.1
C362 0.1
C363 0.1
CP 1
ESYNC 2
CURT 3
5V-D 4
GND 5
GDAO 6
GND 7
VRT 8
VRT 9
VRT 10
GND 11
GND 12
BF 1
2
5V-D 3
GND 4
RDAO 5
BDAO 6
VRB 7
RAD IN 8
GAD IN 9
BAD IN 10
GND 11
GND 12
To M (MEMORY) PG713 PG813
PG13 24Pin
BC102 22000P
C118 100/16
*VOLTAGE: POWER ON MODE
○ : WAVEFORMS No.
MAIN (ANALOG


IC313
74HC04
IC314
LM393
IC316
74HC221
AFC HD PHASE
TP318
AFC HD WIDTH
IC315
HA11423
SYNC SEPA
AFC
VCO
H.D
TP308
Q358
2SC1740
D303
1SS270
AFC Fo
Q341
2SC1740
Q342
2SC1740
Q343
2SC1740
Q344
2SC1740
D304
1SS270
NTSC---1K
PAL----Jumper
PG321
VIDEO OUT
GND
To R (REAR JACK) CN1121
12V-A
5V-A
5V-A2
ALT1
VIDEO
C ADJ
DA2
HUE
DA7
DA8
R ADin
G ADin
B ADin
TP312
TP315
IC307
NJM2904L
ZD301
HZS2-B3
ZD304
HZS4-B1
IC308
M5216L
IC317
V7040
ENCODER
CP312
CP311
CP310
(PAL ONLY)
TP317
4.43M TRAP
R-GAIN
G-GAIN
Y-GAIN
Q329
2SC1740
Q330
2SA854
Q331
2SC1740
Q332
2SC1740
Q326
2SC1740
CP307
6.5MHz LPF
Q333
2SC1740
Q334
2SA854
Q335
2SC1740
Q336
2SC1740
Q327
2SC1740
CP308
6.5MHz LPF
Q337
2SC1740
Q338
2SA854
Q339
2SC1740
Q340
2SC1740
Q328
2SC1740
CP309
6.5MHz LPF
Q351
2SA854
Q352
2SA854
Q353
2SA854
Q354
2SA854
Q345
2SC1740
Q346
2SC1740
Q347
2SC1740
Q348
2SC1740
Q349
2SC1740
Q350
2SC1740
TP316
DL308
105n DELAY
To ANALOG-2

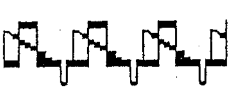
| | PAL | NTSC |
|---|---|---|
| R322 | 10K | 2.2K |
| R323 | 10K | — |

| | PAL | NTSC |
|---|---|---|
| L304 | 82μ | 100μ |
| C417 | 18P | 22P |
| C425 | 120P | 180P |

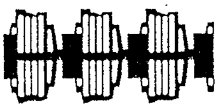
MAIN (ANALOG-1 SECTION) P.C.B

# ANALOG WAVEFORMS

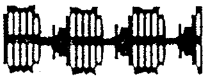
1 IC301-3 950mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



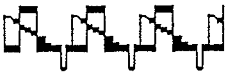
2 IC301-7 820mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



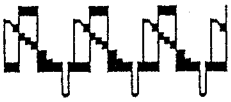
3 IC301-10 1.7Vp-p
0.5V/20.0 μsec.cm
VIDEO - EE



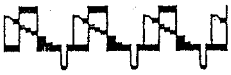
4 IC301-12 1.9Vp-p
0.5V/20.0 μsec.cm
VIDEO - EE



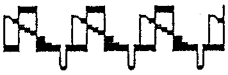
5 IC302-4 950mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



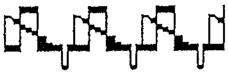
6 IC302-9 400mVp-p
0.1V/20.0 μsec.cm
VIDEO - EE



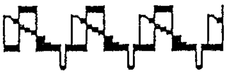
7 IC302-13 690mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



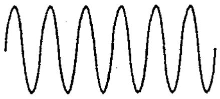
8 IC303-4 690mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



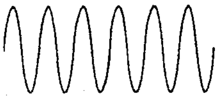
9 IC303-8 670mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



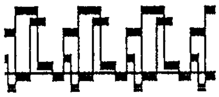
10 IC304-11 590mVp-p
0.2V/200nsec.cm
VIDEO - EE



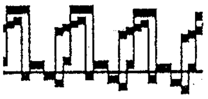
11 IC304-14 540mVp-p
0.2V/200nsec.cm
VIDEO - EE



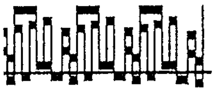
12 IC304-16 1.0Vp-p
0.2V/20.0 μsec.cm
VIDEO - EE



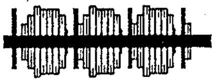
13 IC304-17 970mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



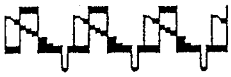
14 IC304-18 1.0Vp-p
0.2V/20.0 μsec.cm
VIDEO - EE



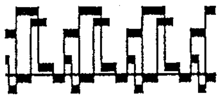
15 IC304-21 210mVp-p
50mV/20.0 μsec.cm
VIDEO - EE



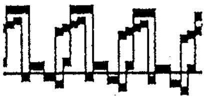
16 IC304-27 340mVp-p
0.1V/20.0 μsec.cm
VIDEO - EE



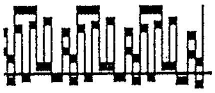
17 IC305-1 950mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



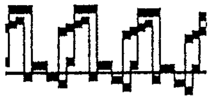
18 IC305-3 480mVp-p
0.1V/20.0 μsec.cm
VIDEO - EE



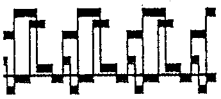
19 IC305-10 900mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



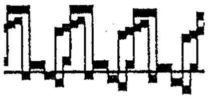
20 IC305-12 900mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



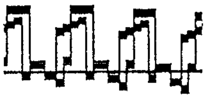
21 IC305-14 500mVp-p
0.1V/20.0 μsec.cm
VIDEO - EE



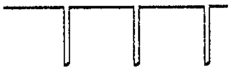
22 IC311-4 660mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



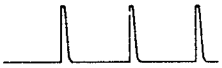
23 IC311-6 870mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



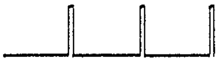
24 IC312-1 5.0Vp-p
2V/20.0 μsec.cm
VIDEO - EE



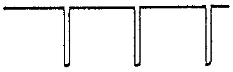
25 IC312-2 5.0Vp-p
2V/20.0 μsec.cm
VIDEO - EE



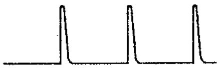
26 IC313-1 5.0Vp-p
2V/5.0msec.cm
VIDEO - EE



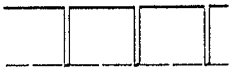
27 IC313-2 5.0Vp-p
2V/5.0msec.cm
VIDEO - EE



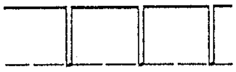
28 IC313-5 5.5Vp-p
2V/20.0 μsec.cm
VIDEO - EE



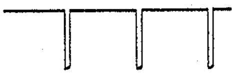
29 IC313-6 5.3Vp-p
2V/20.0 μsec.cm
VIDEO - EE



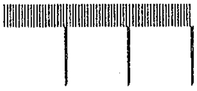
30 IC313-10 5.3Vp-p
2V/20.0 μsec.cm
VIDEO - EE



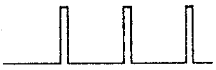
31 IC313-12 5.0Vp-p
2V/20.0 μsec.cm
VIDEO - EE



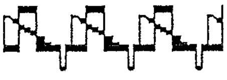
32 IC314-2 4.6Vp-p
1V/5.0msec.cm
VIDEO - EE



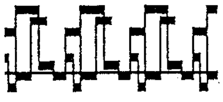
33 IC315-8 11Vp-p
5V/20.0 μsec.cm
VIDEO - EE



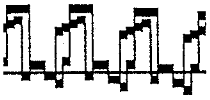
34 IC315-10 700mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



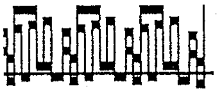
35 IC317-4 920mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE



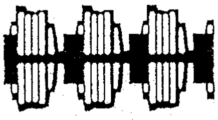
36 IC317-5 1.0Vp-p
0.2V/20.0 μsec.cm
VIDEO - EE



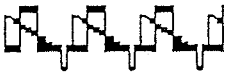
37 IC317-6 1.0Vp-p
0.2V/20.0 μsec.cm
VIDEO - EE



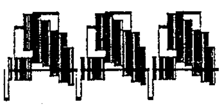
38 IC317-16 450mVp-p
0.1V/20.0 μsec.cm
VIDEO - EE



39 IC317-17 700mVp-p
0.2V/20.0 μsec.cm
VIDEO - EE

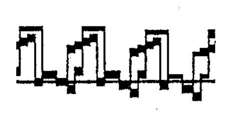


40 IC317-19 2.0Vp-p
0.5V/20.0 μsec.cm
VIDEO - EE

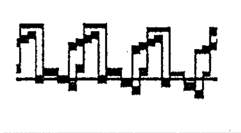


# ANALOG WAVEFORMS

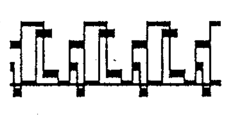
41 IC317-21 1.5Vp-p
0.5V/20.0 µsec.cm
VIDEO - EE



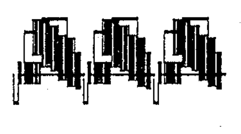
42 IC317-22 1.5Vp-p
0.5V/20.0 µsec.cm
VIDEO - EE



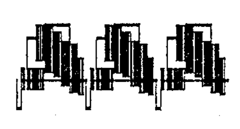
43 IC317-23 1.3Vp-p
0.5V/20.0 µsec.cm
VIDEO - EE



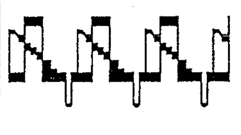
44 DL302-2 820mVp-p
0.2V/20.0 µsec.cm
VIDEO - EE



45 DL303-4 820mVp-p
0.2V/20.0 µsec.cm
VIDEO - EE

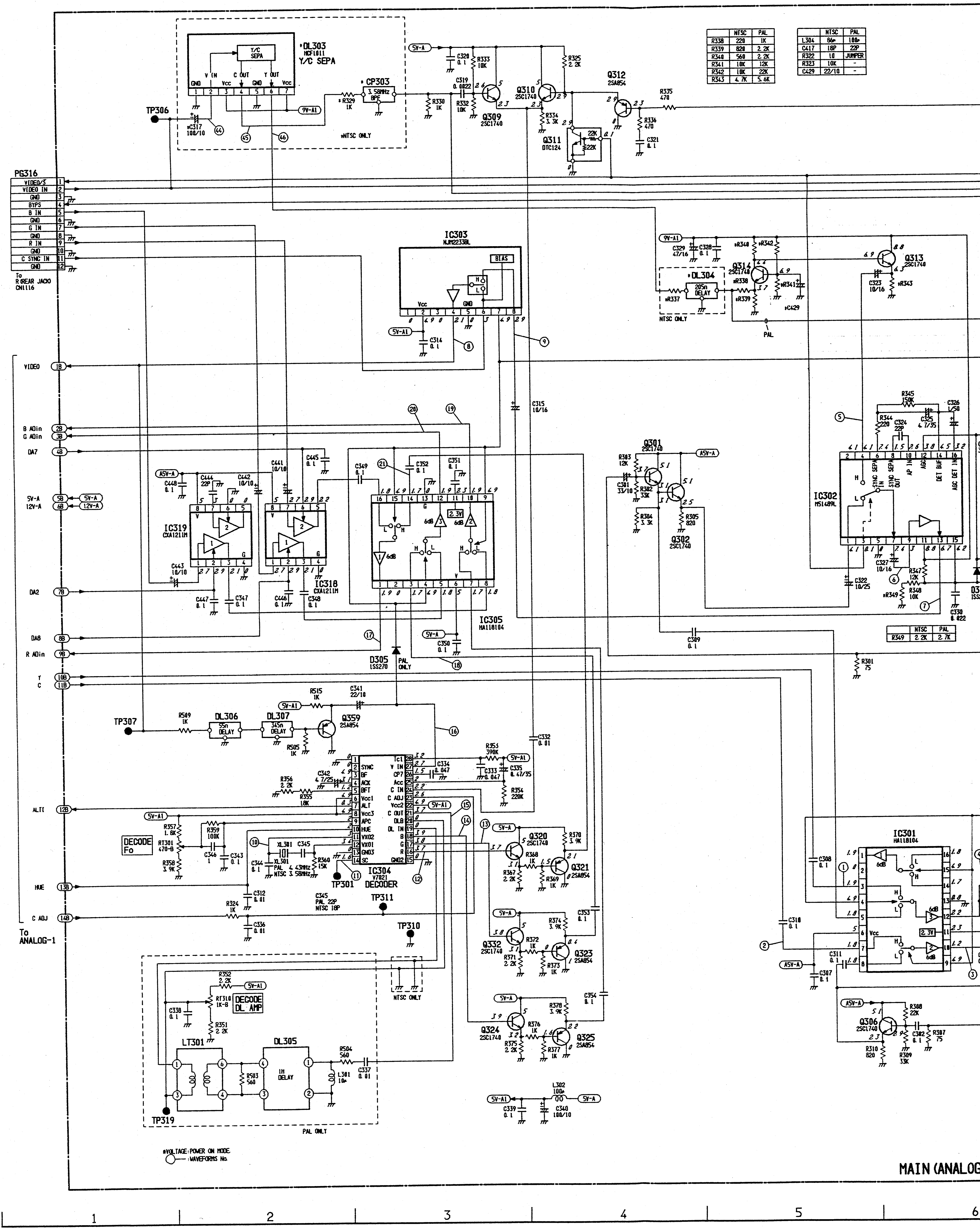


46 DL303-6 800mVp-p
0.2V/20.0 µsec.cm
VIDEO - EE



E
D
C
B
A

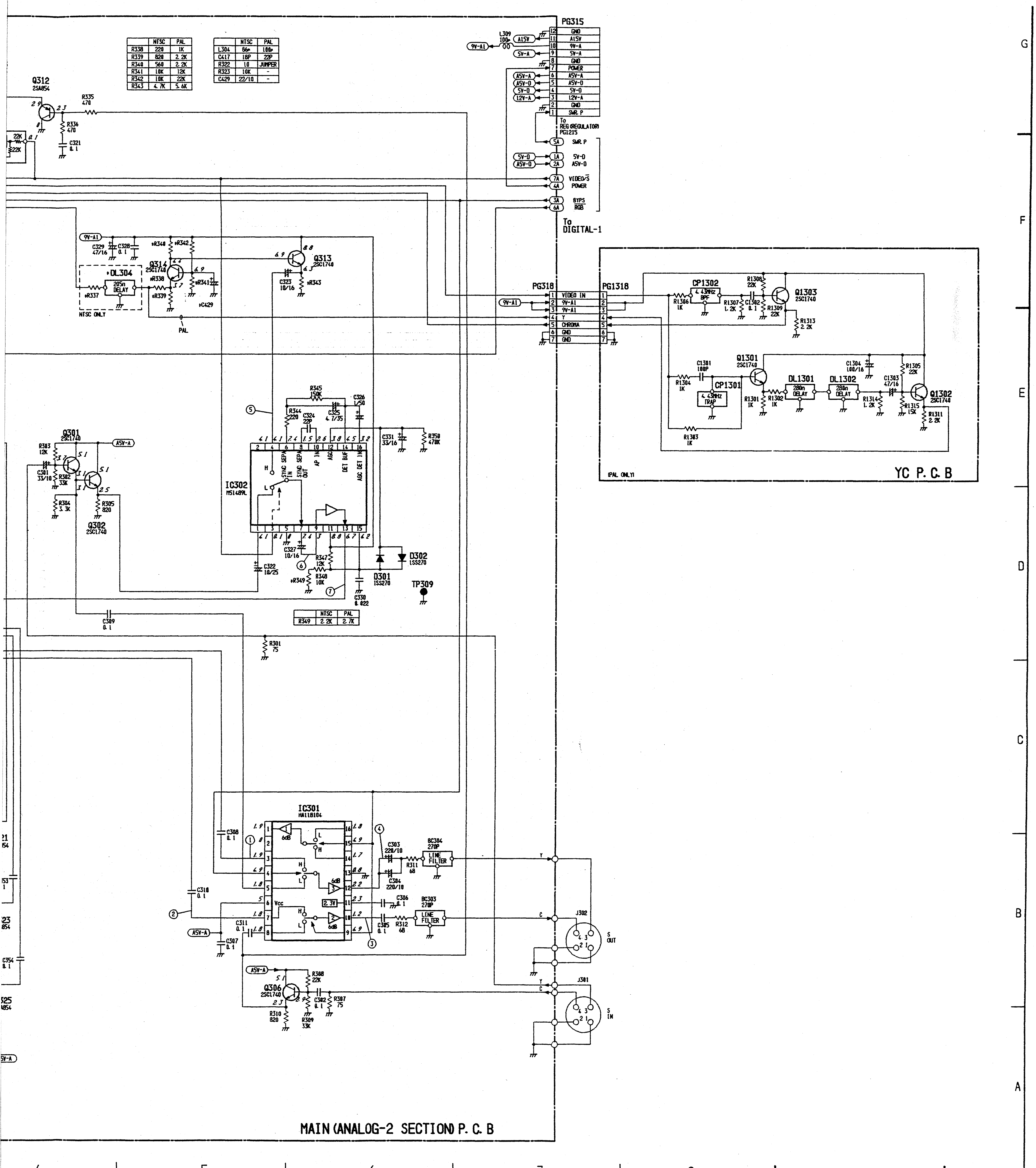
# MAIN (ANALOG-2 SECTION) SCHEMATIC DIAGRAM


*DL303
HCF1011
Y/C SEPA
Y/C SEPA
GND
V IN
Vcc
C OUT
GND
Y OUT
Vcc
TP306
*C317
100/10
*CP303
3.58MHz BPF
*R329 1K
9V-A1
*NTSC ONLY
5V-A
C320 0.1
R333 10K
C319 0.0022
R330 1K
R332 10K
Q309 2SC1740
Q310 2SC1740
R325 2.2K
R334 3.3K
Q311 DTC124
22K
22K
Q312 2SA854
R335 470
R336 470
C321 0.1
PG316
VIDEO/S
VIDEO IN
GND
BYPS
B IN
GND
G IN
GND
R IN
GND
C SYNC IN
GND
To R (REAR JACK) CN1116
IC303
NJM2233BL
BIAS
Vcc
GND
C314 0.1
9V-A1
C329 47/16
C328 0.1
*R348
*R342
Q314 2SC1740
*DL304
205n DELAY
*R337
*R338
*R339
*R341
*C429
NTSC ONLY
PAL
Q313 2SC1740
C323 10/16
*R343
VIDEO
B ADin
G ADin
DA7
5V-A
12V-A
DA2
DA8
R ADin
Y
C
ALT
HUE
C ADJ
To ANALOG-1
C315 10/16
A5V-A
C448 0.1
C444 22P
C442 10/10
C441 10/10
C445 0.1
C349 0.1
C352 0.1
C351 0.1
IC319 CXA1211M
IC318 CXA1211M
C443 10/10
C447 0.1
C347 0.1
C446 0.1
C348 0.1
6dB
2.3V
IC305 HA118104
D305 1SS270
PAL ONLY
C350 0.1
R303 12K
Q301 2SC1740
C301 33/10
R302 33K
R304 3.3K
Q302 2SC1740
R305 820
C309 0.1
R345 150K
R344 220
C324 22P
C325 4.7/35
C326 1/50
IC302 M51409L
SYNC SEPA IN
SYNC SEPA OUT
AP IN
AGC
DET BUF
AGC DET IN
C327 10/16
C322 10/25
R347 12K
R348 10K
*R349
C330 0.022
R301 75
TP307
R549 1K
DL306 55n DELAY
DL307 345n DELAY
R505 1K
R515 1K
C341 22/10
Q359 2SA854
C332 0.01
R353 390K
C334 0.047
C333 0.047
C335 4.7/35
R354 220K
C342 4.7/25
R356 2.2K
R355 18K
SYNC
BF
ACK
BFT
Vcc1
ALT
Vcc3
APC
HUE
VXO2
VXO1
GND3
SC
Tc1
V IN
CP7
Acc
C IN
C ADJ
Vcc2
C OUT
DLB
DL IN
B
G
R
GND2
R357 1.8K
R359 100K
DECODE Fo
RT301 470-B
R358 3.9K
C346 1
C343 0.1
C344 0.1
XL301
C345
PAL 4.43MHz
NTSC 3.58MHz
R360 15K
TP301
IC304 V7021 DECODER
C345 PAL 22P NTSC 18P
TP311
C312 0.01
R324 1K
C336 0.01
TP310
Q320 2SC1740
R370 3.9K
R368 1K
Q321 2SA854
R367 2.2K
R369 1K
Q322 2SC1740
R374 3.9K
R372 1K
C353 0.1
Q323 2SA854
R371 2.2K
R373 1K
Q324 2SC1740
R378 3.9K
R376 1K
C354 0.1
Q325 2SA854
R375 2.2K
R377 1K
NTSC ONLY
R352 2.2K
RT310 1K-B
DECODE DL AMP
C338 0.1
R351 2.2K
LT301
DL305
1H DELAY
R503 560
R504 560
C337 0.01
L301 10μ
TP319
PAL ONLY
L302 100μ
C339 0.1
C340 100/10
IC301 HA118104
C308 0.1
C310 0.1
C311 0.1
C307 0.1
Vcc
Q306 2SC1740
R308 22K
C302 0.1
R307 75
R310 820
R309 33K
*VOLTAGE:POWER ON MODE
○—:WAVEFORMS No.
MAIN (ANALOG
1
2
3
4
5
6

|  | NTSC | PAL |
|---|---|---|
| R338 | 220 | 1K |
| R339 | 820 | 2.2K |
| R340 | 560 | 2.2K |
| R341 | 10K | 12K |
| R342 | 10K | 22K |
| R343 | 4.7K | 5.6K |

|  | NTSC | PAL |
|---|---|---|
| L304 | 86μ | 100μ |
| C417 | 18P | 22P |
| R322 | 10 | JUMPER |
| R323 | 10K | - |
| C429 | 22/10 | - |

|  | NTSC | PAL |
|---|---|---|
| R349 | 2.2K | 2.7K |

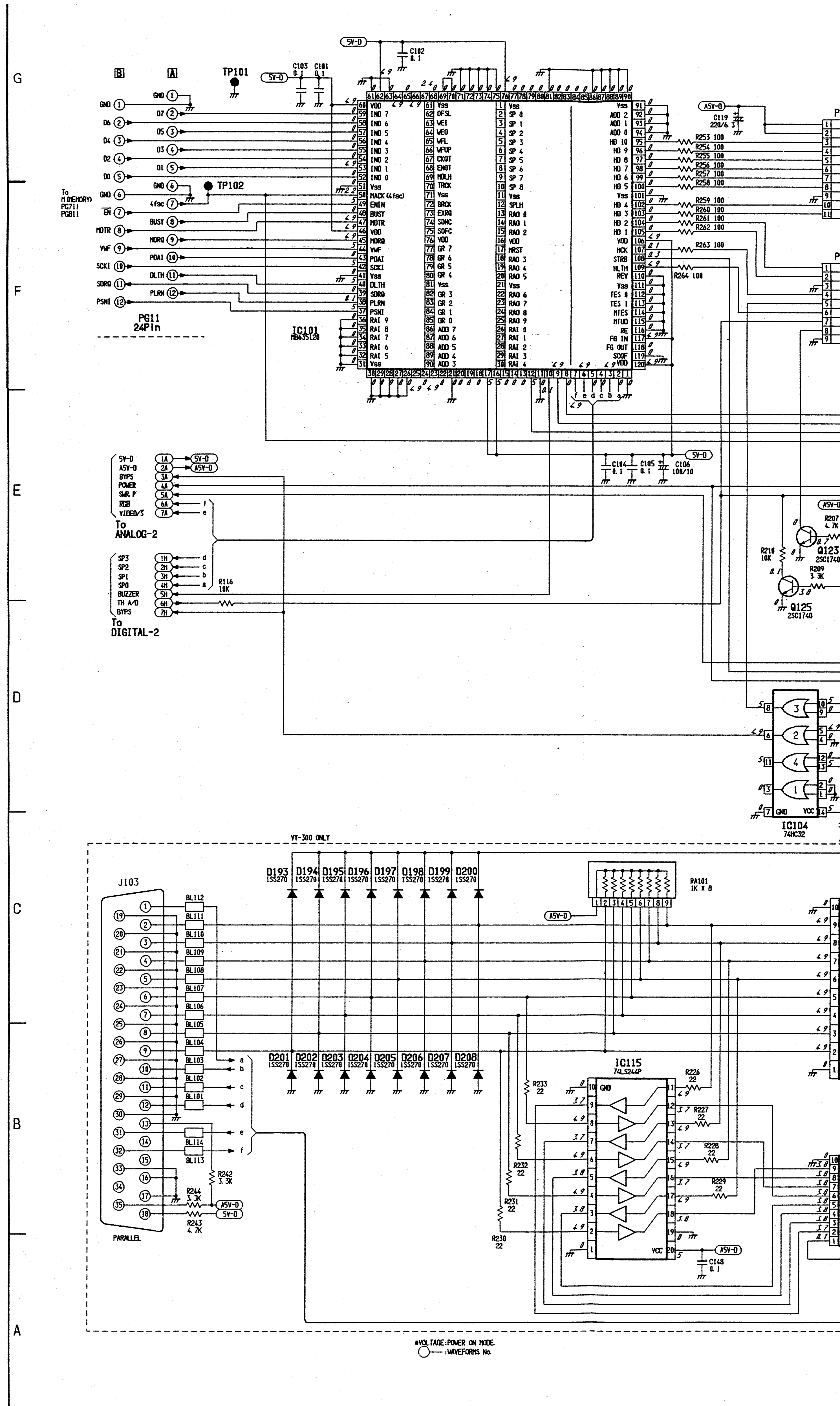

PG315
GND
A15V
9V-A
5V-A
GND
POWER
A5V-A
A5V-D
5V-D
12V-A
GND
SWR. P
To REG (REGULATOR) PG1215
SWR. P
5V-D
A5V-D
VIDEO/S̄
POWER
BYPS
RGB
To DIGITAL-1
L309 100μ
Q312 2SA854
R335 470
R336 470
C321 0.1
9V-A1
C329 47/16
C328 0.1
DL304 205n DELAY
NTSC ONLY
Q314 2SC1740
Q313 2SC1740
C323 10/16
PAL
PG318
VIDEO IN
9V-A1
Y
CHROMA
GND
PG1318
CP1302 4.43MHz BPF
R1308 22K
Q1303 2SC1740
R1306 1K
R1307 1.2K
C1302 0.1
R1309 22K
R1313 2.2K
C1301 100P
Q1301 2SC1740
C1304 100/16
R1305 22K
R1304 1K
CP1301 4.43MHz TRAP
DL1301 280n DELAY
DL1302 280n DELAY
C1303 47/16
Q1302 2SC1740
R1301 1K
R1302 1K
R1314 1.2K
R1315 15K
R1311 2.2K
R1303 1K
(PAL ONLY)
YC P.C.B
R345 150K
C326 1/50
R344 220
C324 22P
C325 4.7/35
C331 33/16
R350 470K
IC302 M51489L
SYNC SEP IN
SYNC SEP OUT
AP IN
AGC
DET BUF
AGC DET IN
Q301 2SC1740
R303 12K
C301 33/10
R302 33K
R304 3.3K
R305 820
Q302 2SC1740
C327 10/16
R347 12K
R348 10K
R349
C322 10/25
C330 0.022
D301 1SS270
D302 1SS270
TP309
C309 0.1
R301 75
IC301 HA118104
6dB
Vcc
C308 0.1
C303 220/10
C304 220/10
R311 68
BC304 270P
LINE FILTER
C310 0.1
C306 0.1
BC303 270P
C305 0.1
R312 68
C311 0.1
C307 0.1
A5V-A
J302
S OUT
R308 22K
Q306 2SC1740
C302 0.1
R307 75
R310 820
R309 33K
J301
S IN
MAIN (ANALOG-2 SECTION) P.C.B
A
B
C
D
E
F
G
4
5
6
7
8
9

|  | NTSC | PAL |
|---|---|---|
| R338 | 220 | 1K |
| R339 | 820 | 2.2K |
| R340 | 560 | 2.2K |
| R341 | 10K | 12K |
| R342 | 10K | 22K |
| R343 | 4.7K | 5.6K |

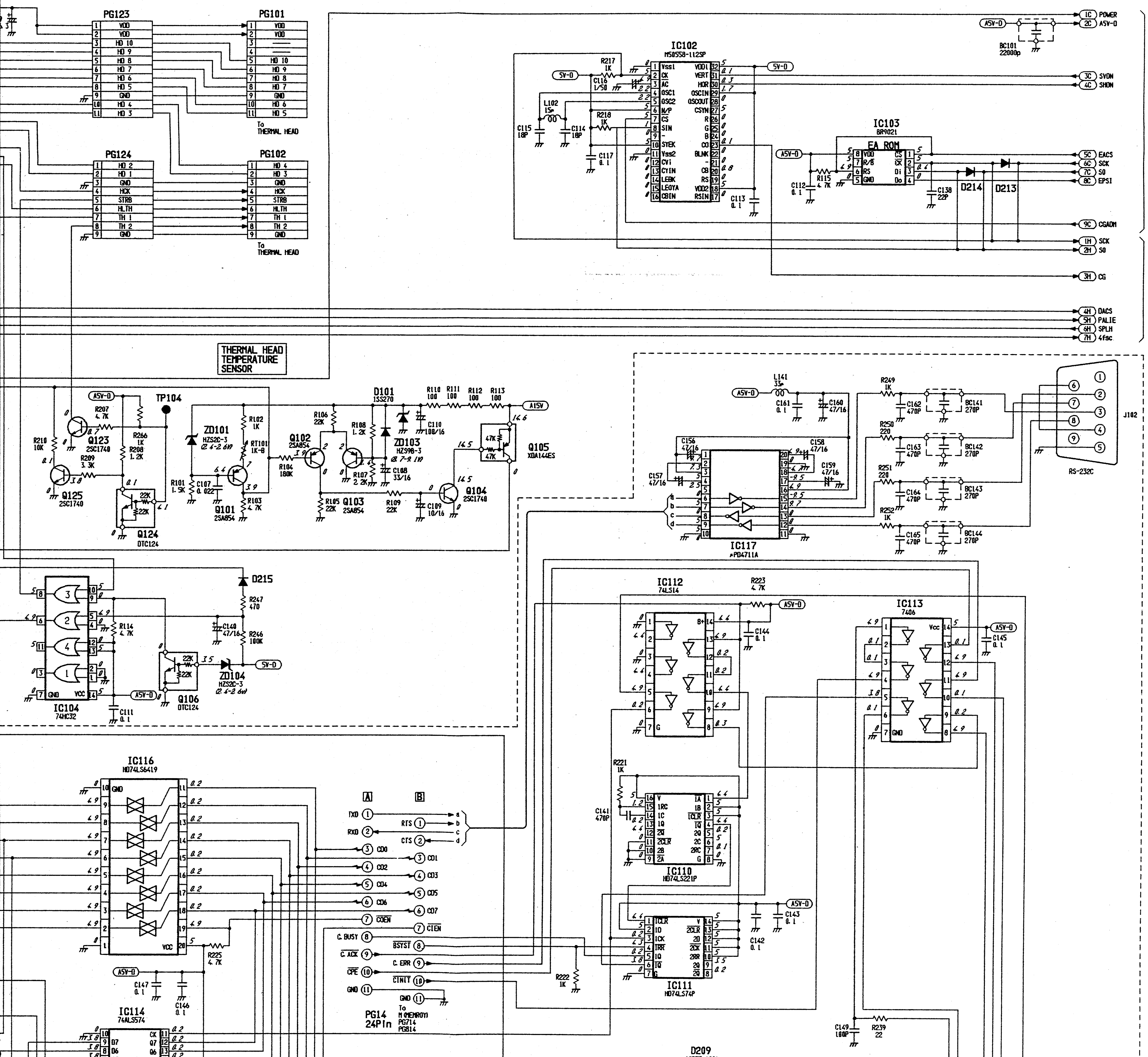
|  | NTSC | PAL |
|---|---|---|
| L304 | 86μ | 100μ |
| C417 | 18P | 22P |
| R322 | 10 | JUMPER |
| R323 | 10K | - |
| C429 | 22/10 | - |

|  | NTSC | PAL |
|---|---|---|
| R349 | 2.2K | 2.7K |

# MAIN (DIGITAL-1 SECTION) SCHEMATIC DIAGRAM



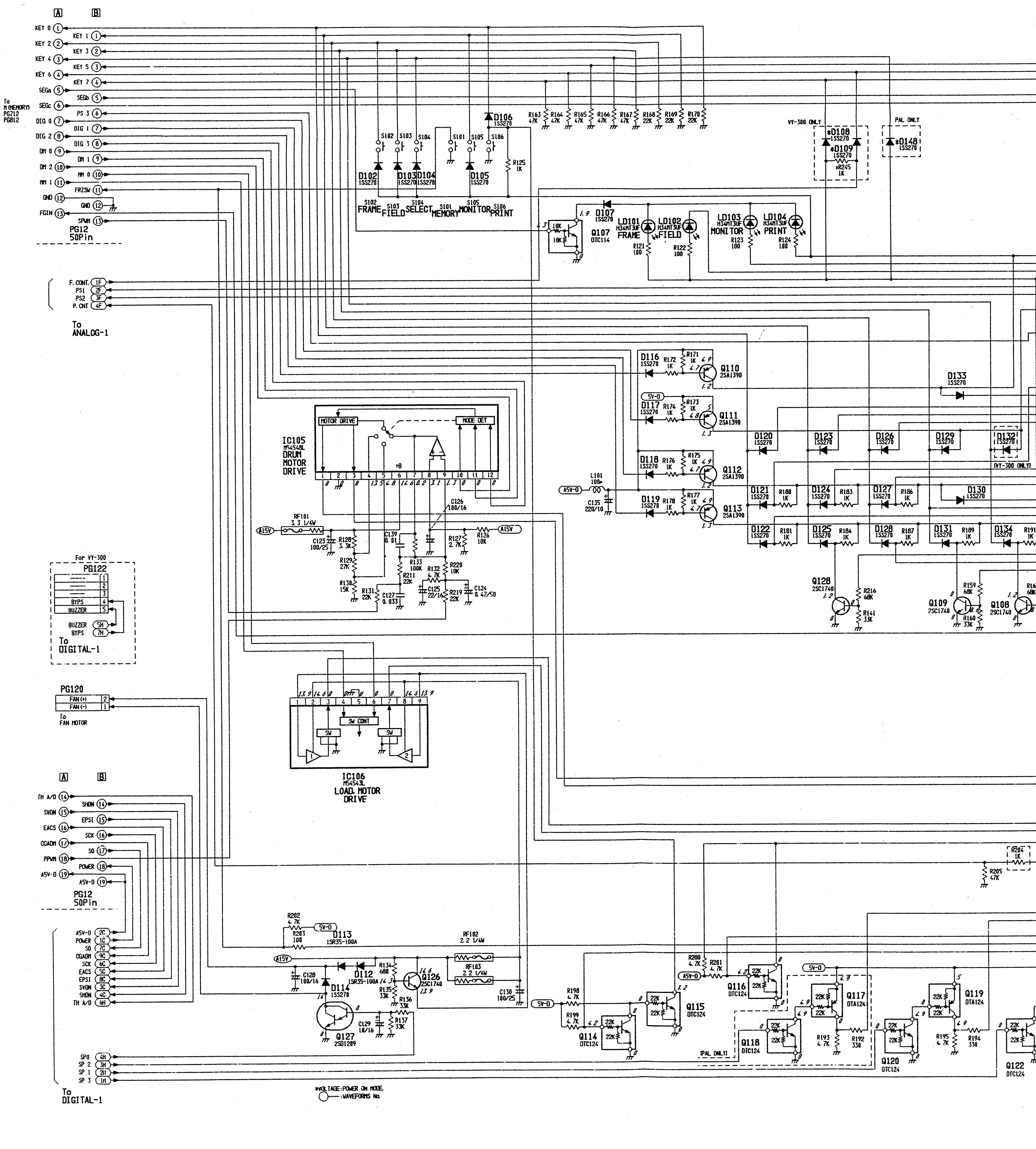
G
F
E
D
C
B
A
1
2
3
4
TP101
TP102
PG11
24PIn
To
M (MEMORY)
PG711
PG811
IC101
MB63512B
C102
0.1
C103
0.1
C101
0.1
5V-D
A5V-D
C119
220/6.3
R253 100
R254 100
R255 100
R256 100
R257 100
R258 100
R259 100
R260 100
R261 100
R262 100
R263 100
R264 100
C104
0.1
C105
0.1
C106
100/10
5V-D
A5V-D
BYPS
POWER
SW.P
RGB
VIDEO/S
To
ANALOG-2
SP3
SP2
SP1
SP0
BUZZER
TH A/D
BYPS
To
DIGITAL-2
R116
10K
Q123
2SC1740
Q125
2SC1740
R210
10K
R209
3.3K
R207
4.7K
IC104
74HC32
VY-300 ONLY
J103
PARALLEL
D193 D194 D195 D196 D197 D198 D199 D200
1SS270
D201 D202 D203 D204 D205 D206 D207 D208
1SS270
RA101
1K X 8
IC115
74LS244P
R226
22
R227
22
R228
22
R229
22
R230
22
R231
22
R232
22
R233
22
C148
0.1
R242
3.3K
R243
4.7K
R244
3.3K
BL101
BL102
BL103
BL104
BL105
BL106
BL107
BL108
BL109
BL110
BL111
BL112
BL113
BL114
*VOLTAGE:POWER ON MODE
:WAVEFORMS No.

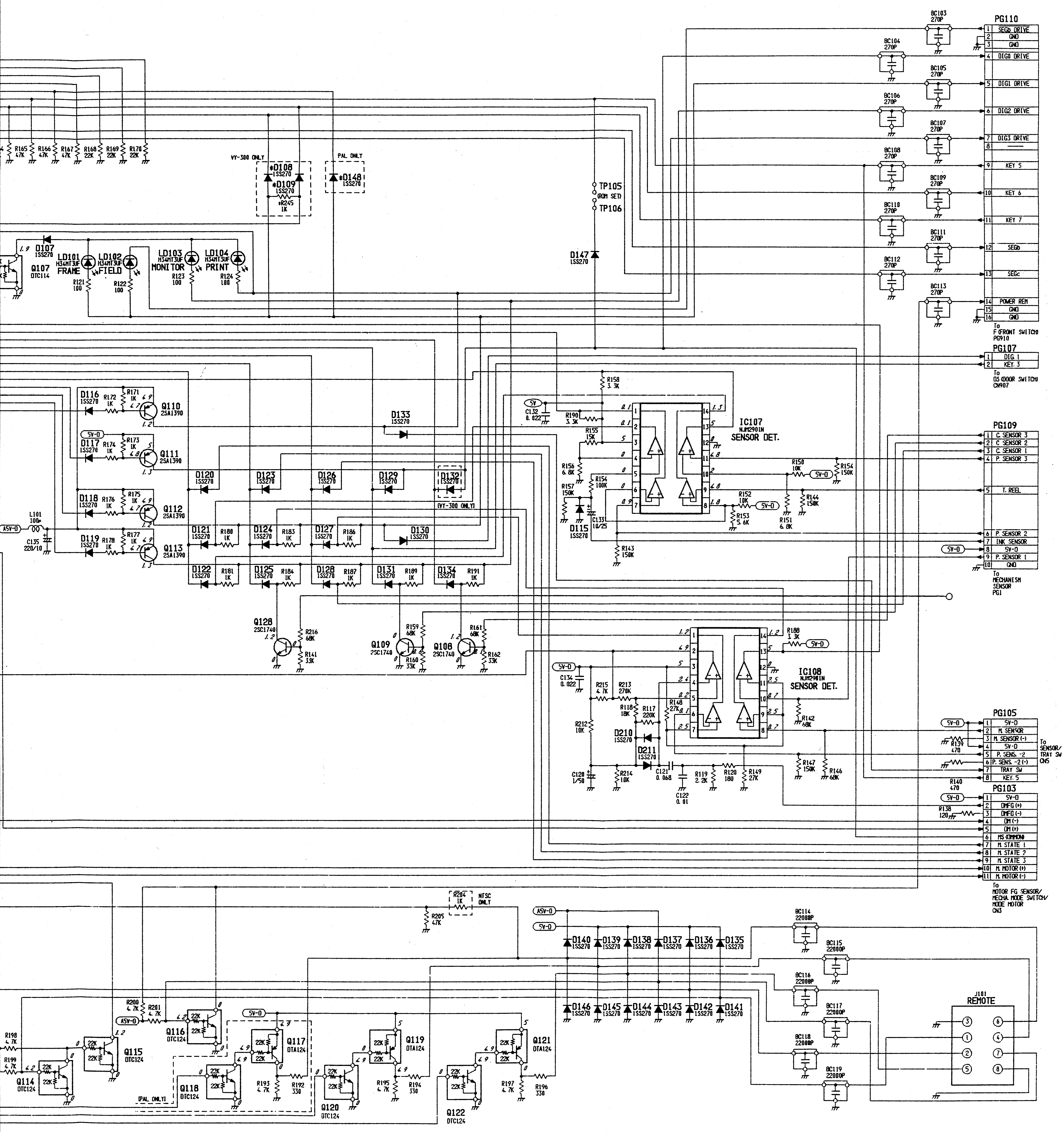

PG123
PG101
PG124
PG102
To THERMAL HEAD
THERMAL HEAD TEMPERATURE SENSOR
IC102
M50558-112SP
IC103
BR9021
EA ROM
BC101
22000p
D214
D213
To DIGITAL-2
To ANALOG-1
POWER
A5V-D
SYON
SHON
EACS
SCK
SO
EPSI
CGADM
SCK
SO
CG
DACS
PALIE
SPLH
4fsc
TP104
D101
1SS270
Q123
2SC1740
Q125
2SC1740
Q124
DTC124
ZD101
HZS2C-3
Q101
2SA854
Q102
2SA854
Q103
2SA854
ZD103
HZS9B-3
Q104
2SC1740
Q105
XDA144ES
IC117
μPD4711A
J102
RS-232C
D215
ZD104
HZS2C-3
Q106
DTC124
IC104
74HC32
IC112
74LS14
IC113
7406
IC110
HD74LS221P
IC111
HD74LS74P
IC116
HD74LS6419
IC114
74ALS574
A
B
TXD
RXD
RTS
CTS
CD0
CD1
CD2
CD3
CD4
CD5
CD6
CD7
COEN
CIEN
C.BUSY
BSYST
C.ACK
C.ERR
CPE
CINIT
GND
PG14
24Pin
To M.MEMORY
PG714
PG814
D209
1SR35-100A
ZD141
HZ5C-3
D181
D182
D183
D184
D185
D186
D187
D188
D189
D190
D191
D192
1SS270

MAIN (DIGITAL-1 SECTION) P. C. B

4 | 5 | 6 | 7 | 8 | 9

# MAIN (DIGITAL-2 SECTION) SCHEMATIC DIAGRAM

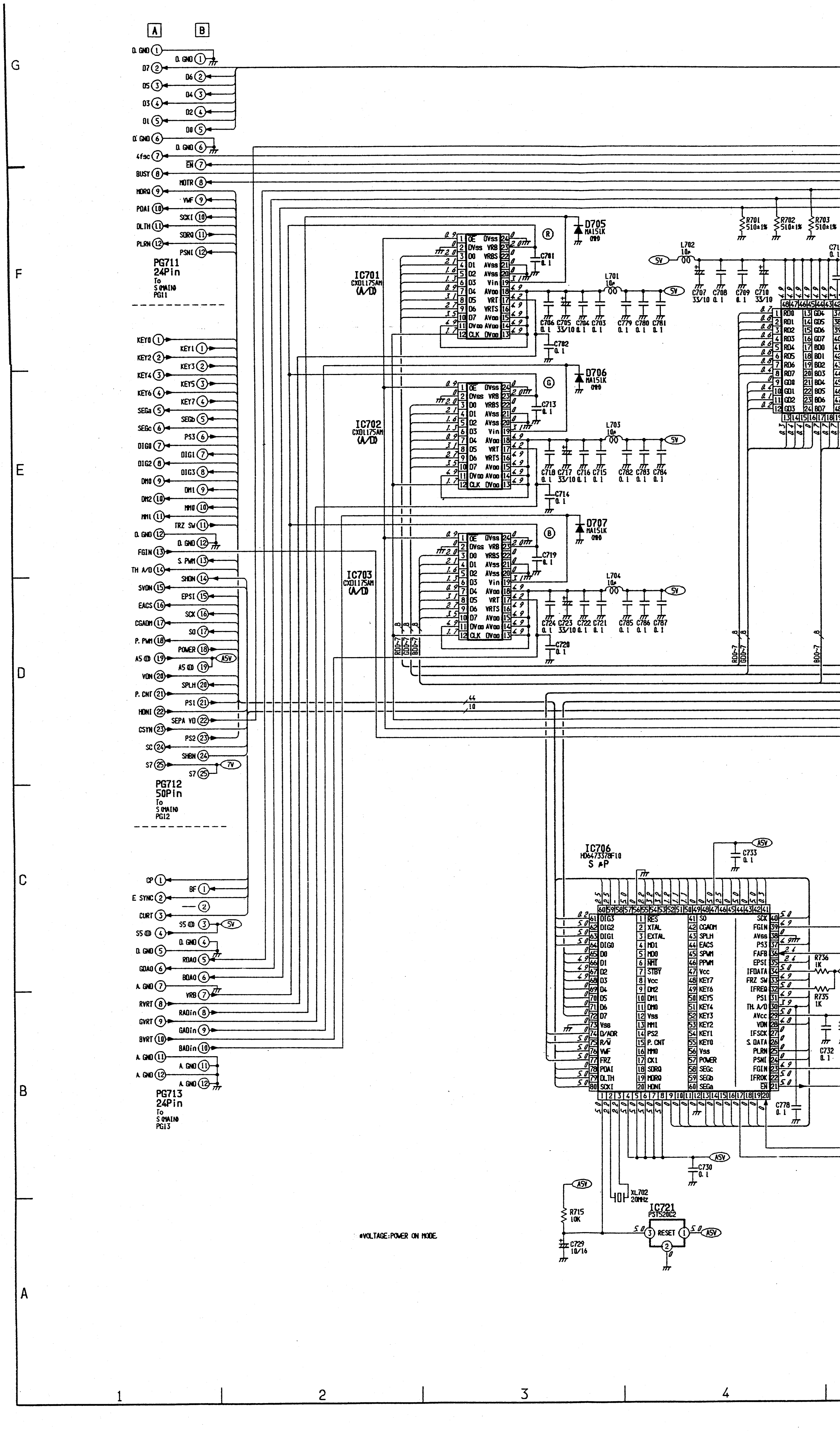

A
B
KEY 0
KEY 1
KEY 2
KEY 3
KEY 4
KEY 5
KEY 6
KEY 7
SEGa
SEGb
SEGc
PS 3
DIG 0
DIG 1
DIG 2
DIG 3
DM 0
DM 1
DM 2
MM 0
MM 1
FRZSW
GND
FGIN
SPWM
To
M (MEMORY)
PG712
PG812
PG12
50Pin
S102
S103
S104
S101
S105
S106
D102
D103
D104
D105
D106
1SS270
R125
1K
FRAME
FIELD
SELECT
MEMORY
MONITOR
PRINT
R163 47K
R164 47K
R165 47K
R166 47K
R167 47K
R168 22K
R169 22K
R170 22K
VY-300 ONLY
PAL ONLY
D108
D109
R245 1K
D148
D107
Q107
DTC114
10K
LD101
LD102
LD103
LD104
H34MT3UF
R121 100
R122 100
R123 100
R124 100
F. CONT.
PS1
PS2
P. CNT
1F
2F
3F
4F
To
ANALOG-1
D116
D117
D118
D119
R171 1K
R172 1K
R173 1K
R174 1K
R175 1K
R176 1K
R177 1K
R178 1K
Q110
Q111
Q112
Q113
2SA1390
5V-D
A5V-D
L101
100μ
C135
220/10
D133
D120
D121
D122
D123
D124
D125
D126
D127
D128
D129
D130
D131
D132
D134
R180 1K
R181 1K
R183 1K
R184 1K
R186 1K
R187 1K
R189 1K
R191 1K
VY-300 ONLY
Q128
2SC1740
R216 68K
R141 33K
Q109
2SC1740
R159 68K
R160 33K
Q108
2SC1740
IC105
M54548L
DRUM
MOTOR
DRIVE
MOTOR DRIVE
MODE DET
RF101
3.3 1/4W
A15V
C123
100/25
R128
3.3K
R129
27K
R130
15K
R131
22K
C127
0.033
C139
0.01
R133
100K
R211
22K
R132
4.7K
C125
22/16
R219
22K
R220
10K
C124
0.47/50
C126
100/16
R127
2.7K
R126
10K
For VY-300
PG122
BYPS
BUZZER
5H
7H
To
DIGITAL-1
PG120
FAN(+)
FAN(-)
To
FAN MOTOR
IC106
M54543L
LOAD MOTOR
DRIVE
SW CONT
SW
TH A/D
SHDN
SVON
EPSI
EACS
SCK
CGADM
SO
PPWM
POWER
A5V-D
PG12
50Pin
2C
1C
7C
9C
6C
5C
8C
3C
4C
6H
R202
4.7K
R203
100
D113
1SR35-100A
D112
1SR35-100A
D114
1SS270
C128
100/16
R134
680
R135
33K
R136
33K
R137
33K
C129
10/16
Q126
2SC1740
Q127
2SD1289
RF102
2.2 1/4W
RF103
2.2 1/4W
C130
100/25
R198
4.7K
R199
4.7K
Q114
DTC124
Q115
DTC124
R200
4.7K
R201
4.7K
Q116
DTC124
Q117
DTA124
Q118
DTC124
R193
4.7K
R192
330
PAL ONLY
Q119
DTA124
Q120
DTC124
R195
4.7K
R194
330
Q122
DTC124
22K
R204
1K
R205
47K
SP0
SP2
SP1
SP3
4H
3H
2H
1H
To
DIGITAL-1
*VOLTAGE:POWER ON MODE
:WAVEFORMS No.
1
2
3
4
5
6


PG110
1 SEGb DRIVE
2 GND
3 GND
4 DIG0 DRIVE
5 DIG1 DRIVE
6 DIG2 DRIVE
7 DIG3 DRIVE
8
9 KEY 5
10 KEY 6
11 KEY 7
12 SEGb
13 SEGc
14 POWER REM
15 GND
16 GND
To F (FRONT SWITCH) PG910
PG107
1 DIG 1
2 KEY. 3
To DS (DOOR SWITCH) CN907
PG109
1 C. SENSOR 3
2 C. SENSOR 2
3 C. SENSOR 1
4 P. SENSOR 3
5 T. REEL
6 P. SENSOR 2
7 INK SENSOR
8 5V-D
9 P. SENSOR 1
10 GND
To MECHANISM SENSOR PG1
PG105
1 5V-D
2 M. SENSOR
3 M. SENSOR (-)
4 5V-D
5 P. SENS. -2
6 P. SENS. -2 (-)
7 TRAY SW
8 KEY. 5
To SENSOR/ TRAY SW CN5
PG103
1 5V-D
2 DMFG (+)
3 DMFG (-)
4 DM (-)
5 DM (+)
6 MS COMMON
7 M. STATE 1
8 M. STATE 2
9 M. STATE 3
10 M. MOTOR (+)
11 M. MOTOR (-)
To MOTOR FG SENSOR/ MECHA MODE SWITCH/ MODE MOTOR CN3
BC103 270P
BC104 270P
BC105 270P
BC106 270P
BC107 270P
BC108 270P
BC109 270P
BC110 270P
BC111 270P
BC112 270P
BC113 270P
R165 47K
R166 47K
R167 47K
R168 22K
R169 22K
R170 22K
VY-300 ONLY
*D108 1SS270
*D109 1SS270
*R245 1K
PAL ONLY
*D148 1SS270
TP105 (ROM SET)
TP106
D147 1SS270
D107 1SS270
Q107 DTC114
LD101 H34MT3UF FRAME
LD102 H34MT3UF FIELD
LD103 H34MT3UF MONITOR
LD104 H34MT3UF PRINT
R121 100
R122 100
R123 100
R124 100
R158 3.3K
IC107 NJM2901N SENSOR DET.
5V
C132 0.022
R190 3.3K
R155 15K
R156 6.8K
R154 100K
R157 150K
C133 10/25
D115 1SS270
R143 150K
R150 10K
R154 150K
R152 10K
R153 5.6K
R151 6.8K
R144 150K
5V-D
D116 1SS270
R171 1K
R172 1K
Q110 2SA1390
D117 1SS270
R173 1K
R174 1K
Q111 2SA1390
D118 1SS270
R175 1K
R176 1K
Q112 2SA1390
D119 1SS270
R177 1K
R178 1K
Q113 2SA1390
L101 100μ
A5V-D
C135 220/10
D133 1SS270
D120 1SS270
D123 1SS270
D126 1SS270
D129 1SS270
D132 1SS270
(VY-300 ONLY)
D121 1SS270
R180 1K
D124 1SS270
R183 1K
D127 1SS270
R186 1K
D130 1SS270
D122 1SS270
R181 1K
D125 1SS270
R184 1K
D128 1SS270
R187 1K
D131 1SS270
R189 1K
D134 1SS270
R191 1K
Q128 2SC1740
R216 68K
R141 33K
Q109 2SC1740
R159 68K
R160 33K
Q108 2SC1740
R161 68K
R162 33K
IC108 NJM2901N SENSOR DET.
R188 3.3K
C134 0.022
R215 4.7K
R213 270K
R118 18K
R117 220K
R148 27K
R142 68K
R212 10K
D210 1SS270
D211 1SS270
C120 1/50
R214 10K
C121 0.068
C122 0.01
R119 2.2K
R120 180
R149 27K
R147 150K
R146 68K
R139 470
R140 470
R138 120
R204 1K
NTSC ONLY
R205 47K
BC114 2200P
BC115 2200P
BC116 2200P
BC117 2200P
BC118 2200P
BC119 2200P
D140 1SS270
D139 1SS270
D138 1SS270
D137 1SS270
D136 1SS270
D135 1SS270
D146 1SS270
D145 1SS270
D144 1SS270
D143 1SS270
D142 1SS270
D141 1SS270
J101 REMOTE
R200 4.7K
R201 4.7K
Q116 DTC124
Q115 DTC124
Q114 DTC124
R198 4.7K
R199 4.7K
Q117 DTA124
Q118 DTC124
(PAL ONLY)
R193 4.7K
R192 330
Q119 DTA124
Q120 DTC124
R195 4.7K
R194 330
Q121 DTA124
Q122 DTC124
R197 4.7K
R196 330
22K

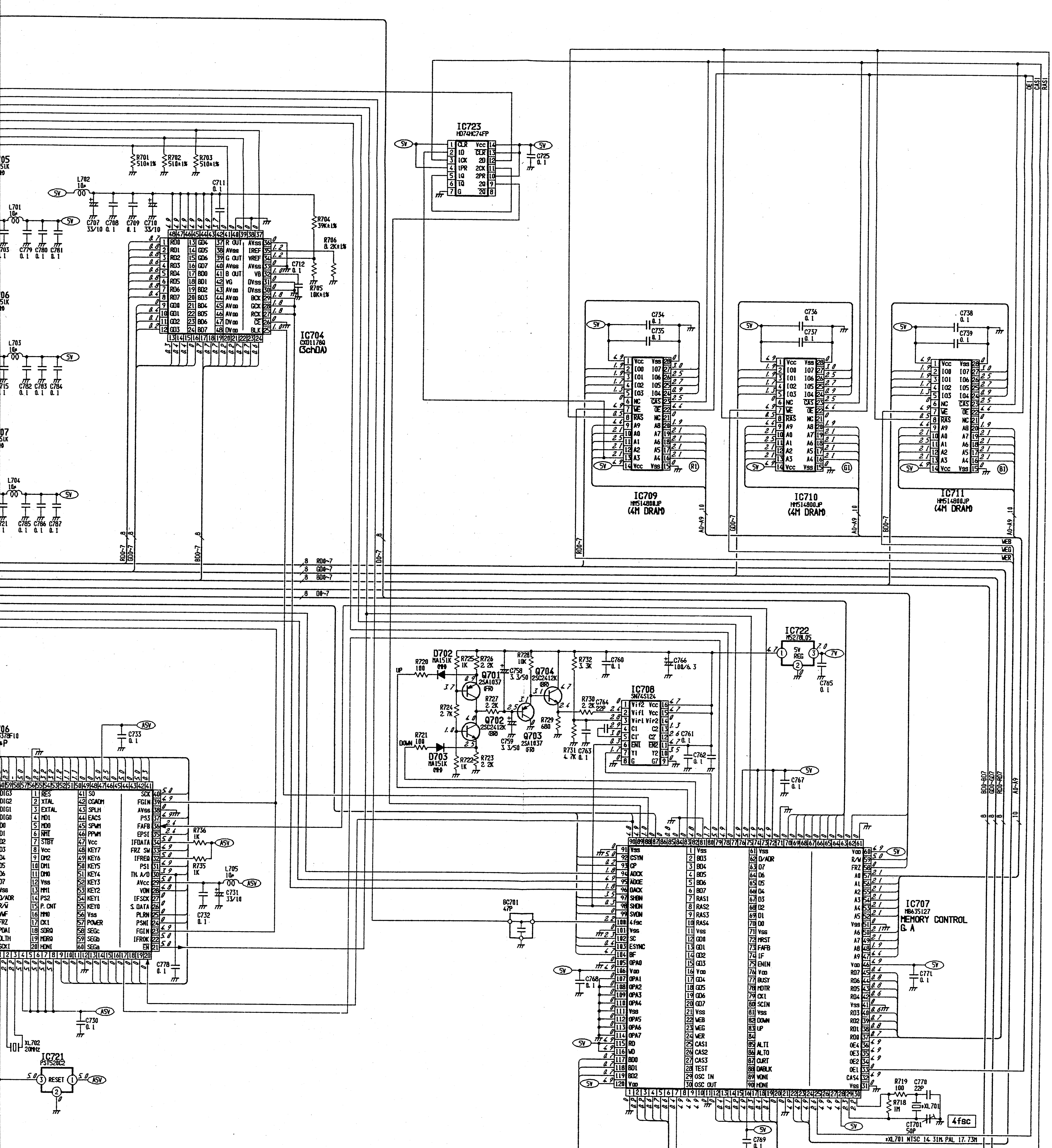
MAIN (DIGITAL-2 SECTION) P. C. B

4 5 6 7 8 9

# M1 (MEMORY-1) SCHEMATIC DIAGRAM



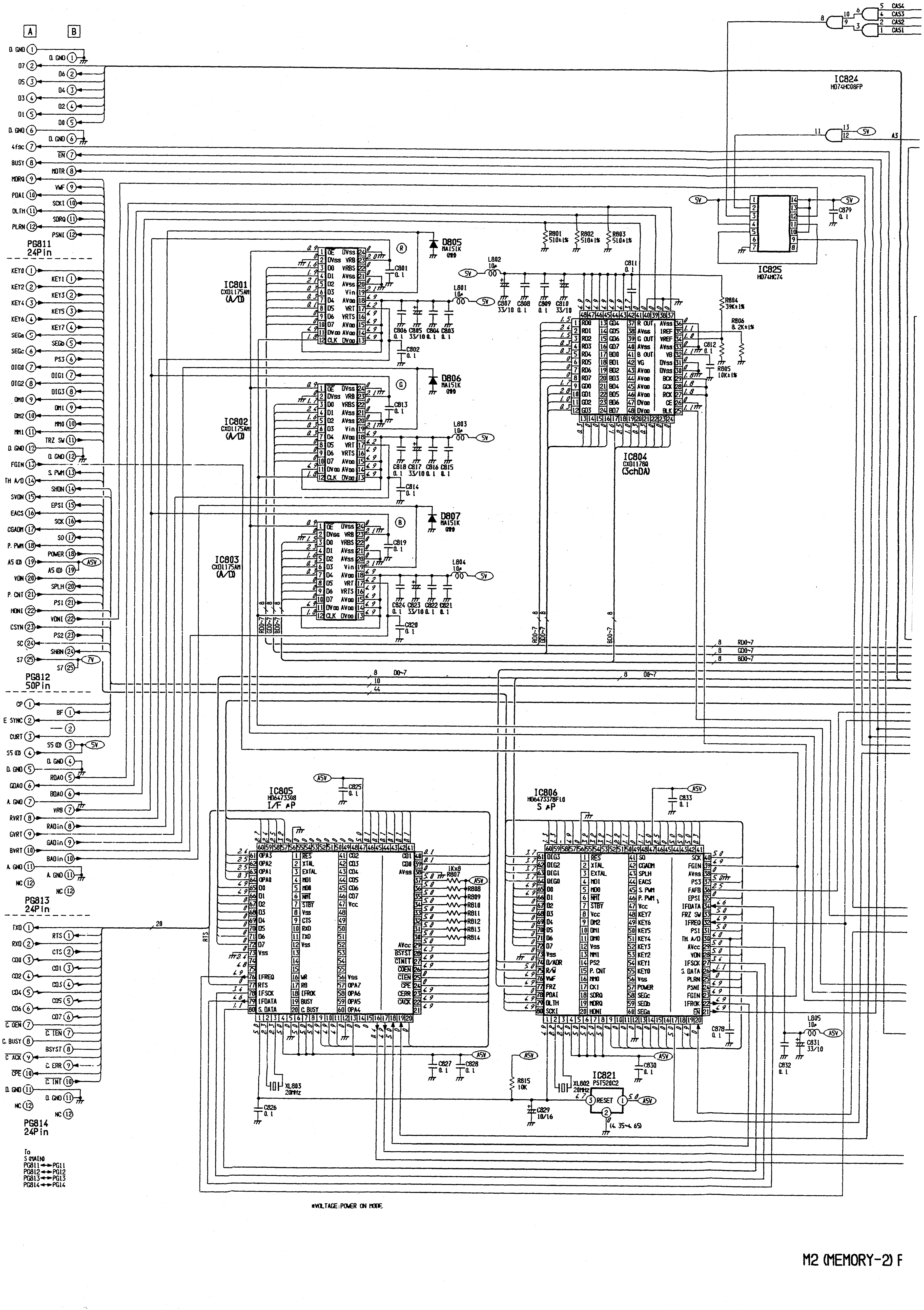
G
F
E
D
C
B
A
1
2
3
4
A
B
D. GND
D7
D5
D3
D1
D6
D4
D2
D0
4fsc
BUSY
MDRQ
POAI
DLTH
PLRN
EN
MOTR
VWF
SCKI
SDRQ
PSNI
PG711
24Pin
To
S (MAIN)
PG11
KEY0
KEY2
KEY4
KEY6
SEGa
SEGc
DIG0
DIG2
DM0
DM2
MM1
FGIN
TH A/D
SVON
EACS
CGADM
P. PWM
AS CD
VON
P. CNT
HDNI
CSYN
SC
S7
KEY1
KEY3
KEY5
KEY7
SEGb
PS3
DIG1
DIG3
DM1
MM0
FRZ SW
S. PWM
SHON
EPSI
SCK
SO
POWER
SPLH
PS1
SEPA VD
PS2
SHBN
A5V
7V
PG712
50Pin
To
S (MAIN)
PG12
CP
E. SYNC
CURT
S5 CD
GDAO
A. GND
RVRT
GVRT
BVRT
BF
RDAO
BDAO
VRB
RADin
GADin
BADin
5V
PG713
24Pin
To
S (MAIN)
PG13
IC701
CXD1175AM
(A/D)
IC702
CXD1175AM
(A/D)
IC703
CXD1175AM
(A/D)
OE
DVss
D0
D1
D2
D3
D4
D5
D6
D7
DVDD
CLK
VRB
VRBS
AVss
Vin
AVDD
VRT
VRTS
R
G
B
D705
MA151K
D706
MA151K
D707
MA151K
C701
C702
C703
C704
C705
C706
C713
C714
C715
C716
C717
C718
C719
C720
C721
C722
C723
C724
C779
C780
C781
C782
C783
C784
C785
C786
C787
L701
L702
L703
L704
10μ
33/10
0.1
R701
R702
R703
510±1%
C707
C708
C709
C710
RD0
RD1
RD2
RD3
RD4
RD5
RD6
RD7
GD0
GD1
GD2
GD3
GD4
GD5
GD6
GD7
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
RD0-7
GD0-7
BD0-7
44
10
IC706
HD6473378F10
S μP
A5V
C733
0.1
DIG3
DIG2
DIG1
DIG0
D0
D1
D2
D3
D4
D5
D6
D7
Vss
D/ADR
R/W
VWF
FRZ
POAI
DLTH
SCKI
RES
XTAL
EXTAL
MD1
MD0
NMI
STBY
Vcc
DM2
DM1
DM0
Vss
MM1
PS2
P. CNT
MM0
CK1
SDRQ
MDRQ
HDNI
SO
CGADM
SPLH
EACS
SPWM
PPWM
Vcc
KEY7
KEY6
KEY5
KEY4
KEY3
KEY2
KEY1
KEY0
Vss
POWER
SEGc
SEGb
SEGa
SCK
FGIN
AVss
PS3
FAFB
EPSI
IFDATA
FRZ SW
IFRED
PS1
TH. A/D
AVcc
VON
IFSCK
S. DATA
PLRN
PSNI
FGIN
IFRCK
EN
R736
1K
R735
1K
C732
0.1
C778
0.1
C730
0.1
XL702
20MHz
IC721
PST528C2
RESET
R715
10K
C729
10/16
*VOLTAGE:POWER ON MODE


IC723
HD74HC74FP
IC704
CXD1178Q
(3chDA)
IC709
HM514800JP
(4M DRAM)
IC710
HM514800JP
(4M DRAM)
IC711
HM514800JP
(4M DRAM)
IC722
M5278L05
5V REG
IC708
SN74S124
IC707
MB635127
MEMORY CONTROL
G. A
IC721
PST520C2
RESET
D702
MA151K
D703
MA151K
Q701
2SA1037
Q702
2SC2412K
Q703
2SA1037
Q704
2SC2412K
XL702
20MHz
BC701
47P
4fsc
*XL701 NTSC 14.31M, PAL 17.73M
RD0~7
GD0~7
BD0~7
D0~7
A0~A9
WEB
WEG
WER
OE1
CAS1
RAS1

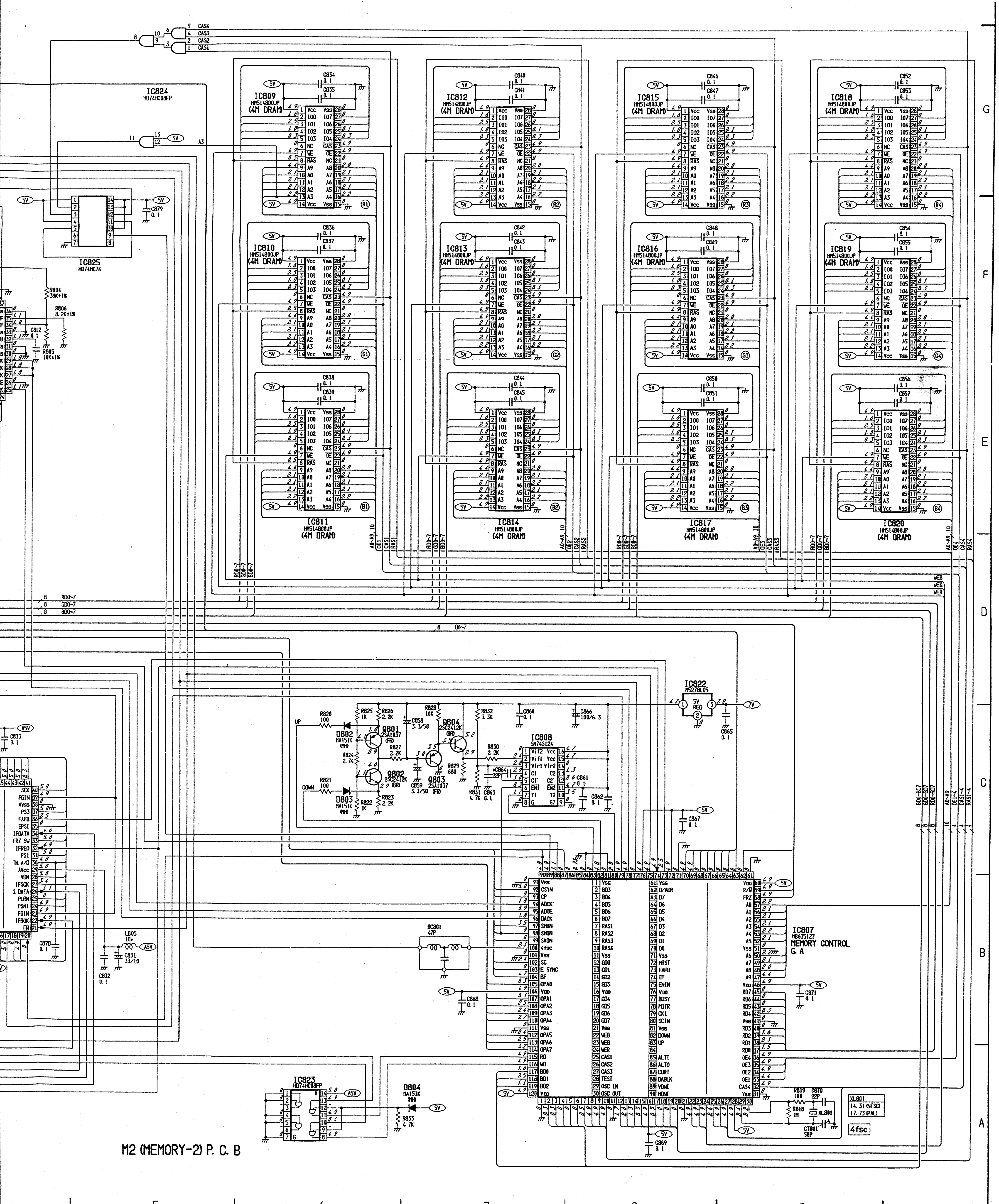
M1 (MEMORY-1) P. C. B

4 5 6 7 8 9

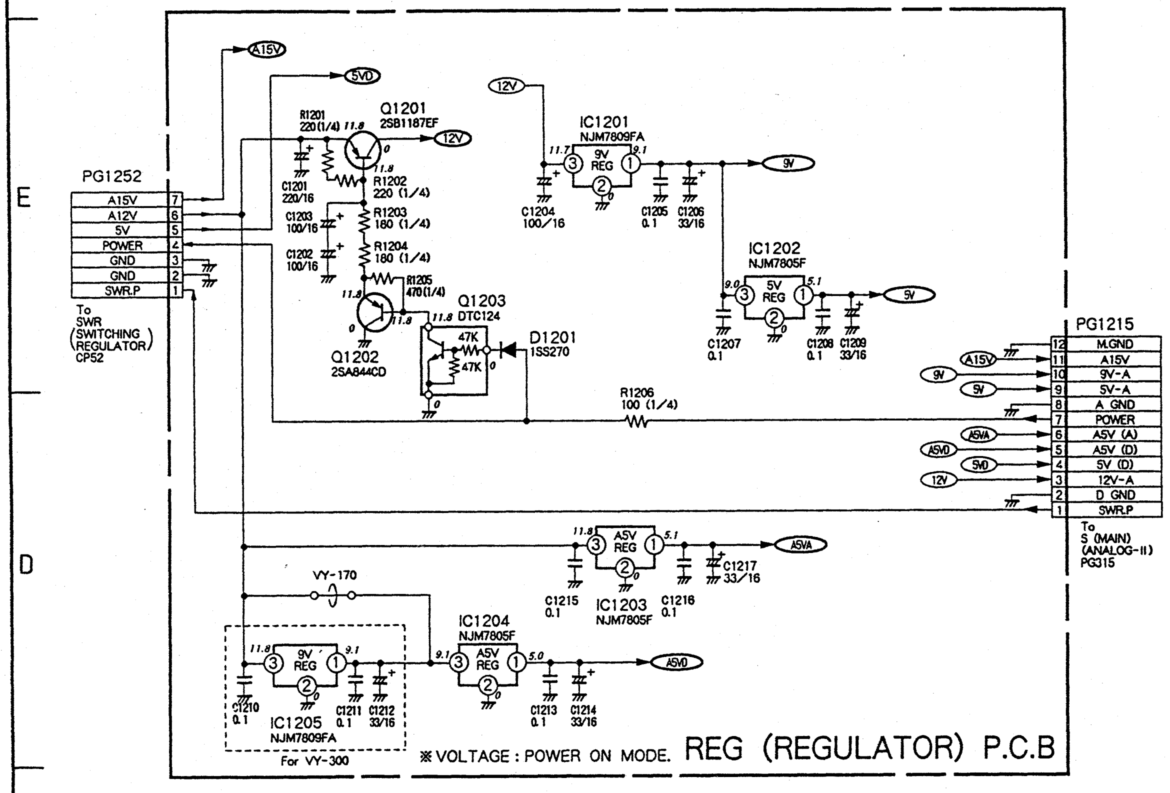
# M2 (MEMORY-2) SCHEMATIC DIAGRAM


A
B
PG811
24Pin
PG812
50Pin
PG813
24Pin
PG814
24Pin
D.GND
D7
D5
D3
D1
4fsc
BUSY
MDRQ
PDAI
DLTH
PLRN
D6
D4
D2
D0
EN
MOTR
VWF
SCKI
SDRQ
PSNI
KEY0
KEY2
KEY4
KEY6
SEGa
SEGc
DIG0
DIG2
DM0
DM2
MM1
FGIN
TH A/D
SVON
EACS
CGADM
P.PWM
A5 (D)
VON
P.CNT
HONI
CSYN
SC
S7
KEY1
KEY3
KEY5
KEY7
SEGb
PS3
DIG1
DIG3
DM1
MM0
TRZ SW
S.PWM
SHON
EPSI
SCK
SO
POWER
SPLH
PS1
VONI
PS2
SHBN
CP
E SYNC
CURT
S5 (D)
BF
RDAO
GDAO
BDAO
A.GND
RVRT
GVRT
BVRT
NC
VRB
RADin
GADin
BADin
TXD
RXD
CD0
CD2
CD4
CD6
C.OEN
C.BUSY
C.ACK
CPE
RTS
CTS
CD1
CD3
CD5
CD7
C.TEN
BSYST
C.ERR
C.INT
5V
A5V
7V
IC801
CXD1175AM
(A/D)
IC802
CXD1175AM
(A/D)
IC803
CXD1175AM
(A/D)
IC804
CXD1176Q
(3chDA)
IC805
HD6473308
I/F μP
IC806
HD6473378F10
S μP
IC821
PST520C2
RESET
(4.35~4.65)
IC824
HD74HC08FP
IC825
HD74HC74
D805
MA151K
D806
MA151K
D807
MA151K
L801
L802
L803
L804
L805
XL803
20MHz
XL802
20MHz
R801
R802
R803
510±1%
R804
39K±1%
R805
10K±1%
R806
8.2K±1%
R807
1K×8
R808
R809
R810
R811
R812
R813
R814
R815
10K
C801
C802
C803
C804
C805
C806
C807
C808
C809
C810
C811
C812
C813
C814
C815
C816
C817
C818
C819
C820
C821
C822
C823
C824
C825
C826
C827
C828
C829
10/16
C830
C831
33/10
C832
C833
C878
C879
CAS1
CAS2
CAS3
CAS4
A3
RD0~7
GD0~7
BD0~7
D0~7
RTS
*VOLTAGE:POWER ON MODE
To
S (MAIN)
PG811↔PG11
PG812↔PG12
PG813↔PG13
PG814↔PG14
1
2
3
4
5

M2 (MEMORY-2) F

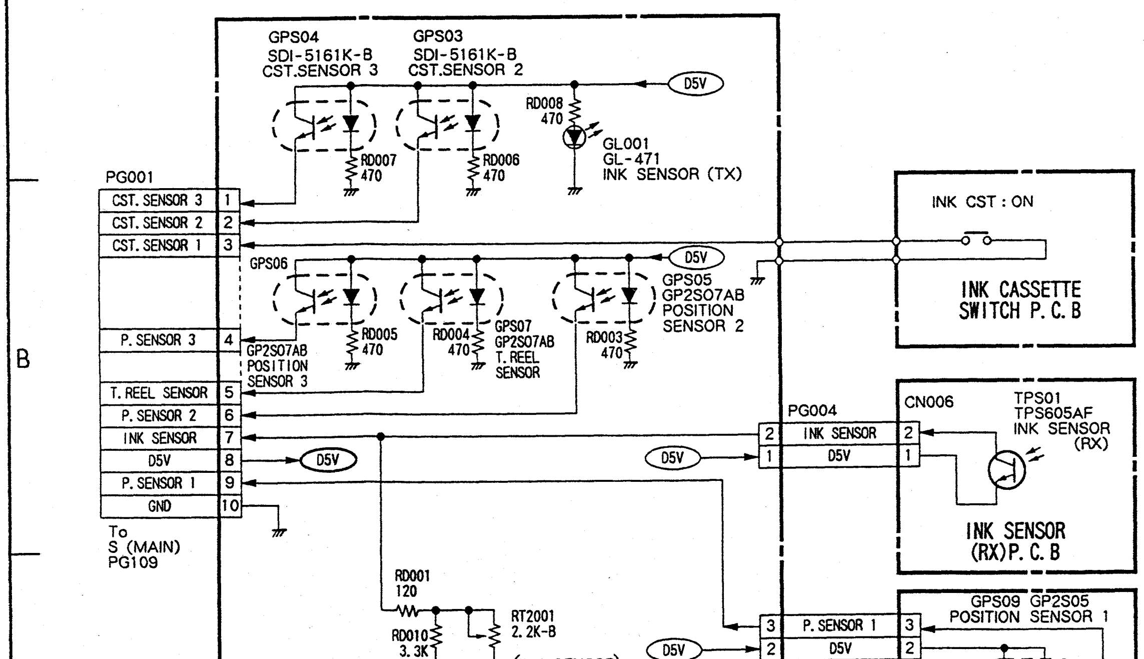

IC809 HM514800JP (4M DRAM)
IC810 HM514800JP (4M DRAM)
IC811 HM514800JP (4M DRAM)
IC812 HM514800JP (4M DRAM)
IC813 HM514800JP (4M DRAM)
IC814 HM514800JP (4M DRAM)
IC815 HM514800JP (4M DRAM)
IC816 HM514800JP (4M DRAM)
IC817 HM514800JP (4M DRAM)
IC818 HM514800JP (4M DRAM)
IC819 HM514800JP (4M DRAM)
IC820 HM514800JP (4M DRAM)
IC824 HD74HC08FP
IC825 HD74HC74
IC822 M5278L05 5V REG
IC808 SN74S124
IC807 MB635127 MEMORY CONTROL G. A
IC823 HD74HC08FP
Q801 2SA1037
Q802 2SC2412K
Q803 2SA1037
Q804 2SC2412K
D802 MA151K
D803 MA151K
D804 MA151K
XL801 14.31 (NTSC) 17.73 (PAL)
4fsc
BC801 47P
L805 10μ
CAS1 CAS2 CAS3 CAS4
RD0~7 GD0~7 BD0~7
D0~7
WEB WEG WER
A0~A9
UP DOWN
M2 (MEMORY-2) P. C. B
A B C D E F G
5 6 7 8 9 10

# REG (REGULATOR) SCHEMATIC DIAGRAM

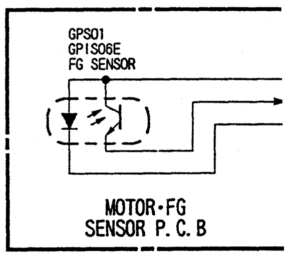

E
D
PG1252
A15V 7
A12V 6
5V 5
POWER 4
GND 3
GND 2
SWR.P 1
To SWR (SWITCHING REGULATOR) CP52
A15V
5VD
R1201 220 (1/4)
11.8
Q1201 2SB1187EF
0
12V
11.8
C1201 220/16
R1202 220 (1/4)
C1203 100/16
R1203 180 (1/4)
C1202 100/16
R1204 180 (1/4)
R1205 470 (1/4)
11.8
0
Q1202 2SA844CD
11.8
Q1203 DTC124
11.8
47K
47K
0
D1201 1SS270
0
0
12V
IC1201 NJM7809FA
11.7
9V REG
9.1
0
C1204 100/16
C1205 0.1
C1206 33/16
9V
IC1202 NJM7805F
9.0
5V REG
5.1
0
5V
C1207 0.1
C1208 0.1
C1209 33/16
R1206 100 (1/4)
PG1215
12 M.GND
11 A15V
10 9V-A
9 5V-A
8 A GND
7 POWER
6 A5V (A)
5 A5V (D)
4 5V (D)
3 12V-A
2 D GND
1 SWR.P
A15V
9V
5V
A5VA
A5VD
5VD
12V
To S (MAIN) (ANALOG-II) PG315
11.8
A5V REG
5.1
0
A5VA
C1217 33/16
C1215 0.1
IC1203 NJM7805F
C1216 0.1
VY-170
IC1204 NJM7805F
11.8
9V REG
9.1
0
9.1
A5V REG
5.0
0
A5VD
C1210 0.1
C1211 0.1
C1212 33/16
IC1205 NJM7809FA
For VY-300
C1213 0.1
C1214 33/16
※VOLTAGE : POWER ON MODE.
REG (REGULATOR) P.C.B

# MECHANISM SENSOR SCHEMATIC DIAGRAM

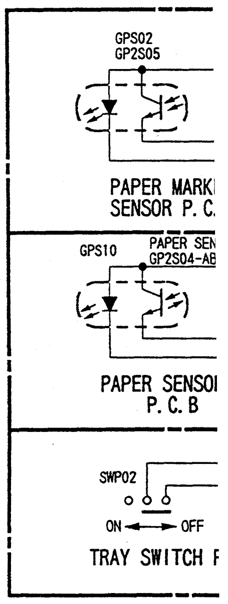
C


B
A
GPS04 SDI-5161K-B CST.SENSOR 3
GPS03 SDI-5161K-B CST.SENSOR 2
D5V
RD008 470
GL001 GL-471 INK SENSOR (TX)
RD007 470
RD006 470
PG001
CST. SENSOR 3 1
CST. SENSOR 2 2
CST. SENSOR 1 3
P. SENSOR 3 4
T. REEL SENSOR 5
P. SENSOR 2 6
INK SENSOR 7
D5V 8
P. SENSOR 1 9
GND 10
To S (MAIN) PG109
GPS06
D5V
GPS05 GP2S07AB POSITION SENSOR 2
GP2S07AB POSITION SENSOR 3
RD005 470
RD004 470
GPS07 GP2S07AB T. REEL SENSOR
RD003 470
INK CST : ON
INK CASSETTE SWITCH P. C. B
PG004
2 INK SENSOR 2
1 D5V 1
CN006
TPS01 TPS605AF INK SENSOR (RX)
INK SENSOR (RX) P. C. B
D5V
D5V
RD001 120
RD010 3.3K
RT2001 2.2K-B
(INK SENSOR LEVEL)
3 P. SENSOR 1 3
2 D5V 2
1 P. SENSOR 1(-) 1
PG002
470
D5V
GPS09 GP2S05 POSITION SENSOR 1
POSITION SENSOR 1 P. C. B
MECHANISM SENSOR P. C. B

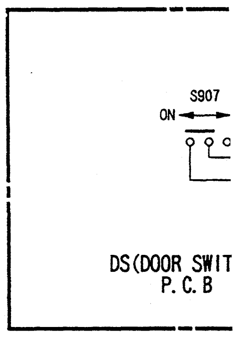
# MOTOR·FG SENSOR SCHEMATIC


GPS01 GP1S06E FG SENSOR
MOTOR·FG SENSOR P. C. B

# SENSOR/TRAY SWITCH SCHEMA

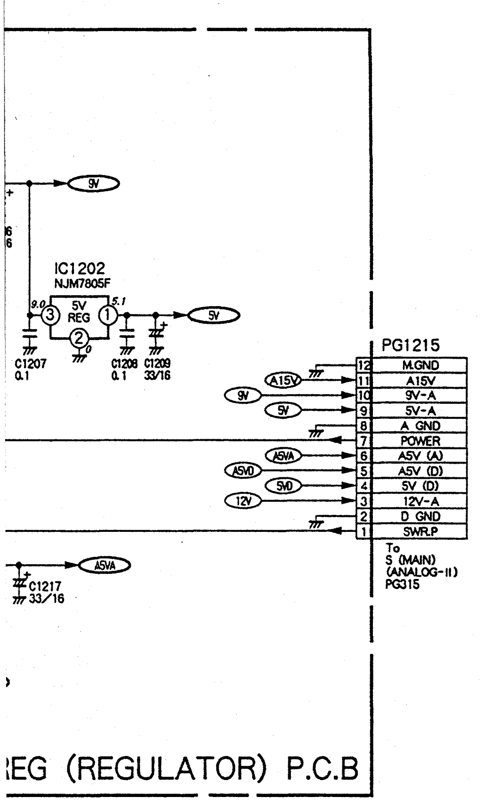

GPS02 GP2S05
PAPER MARK
SENSOR P. C.
GPS10
PAPER SEN
GP2S04-AB
PAPER SENSO
P. C. B
SWP02
ON OFF
TRAY SWITCH

# DS (DOOR SWITCH) SCHEMATIC

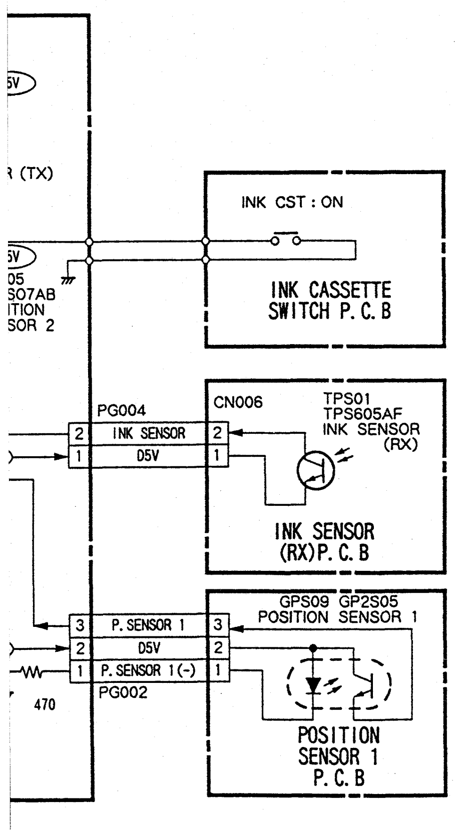

S907
ON
DS(DOOR SWIT
P. C. B

1 2 3 4 5 6

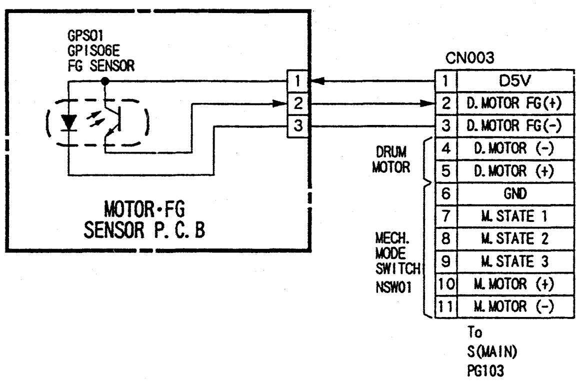
1


IC1202
NJM7805F
9.0
5V
REG
5.1
0
9V
5V
C1207
0.1
C1208
0.1
C1209
33/16
PG1215
12 M.GND
11 A15V
10 9V-A
9 5V-A
8 A GND
7 POWER
6 A5V (A)
5 A5V (D)
4 5V (D)
3 12V-A
2 D GND
1 SWR.P
A15V
9V
5V
A5VA
A5VD
5VD
12V
To
S (MAIN)
(ANALOG-II)
PG315
A5VA
C1217
33/16
EG (REGULATOR) P.C.B

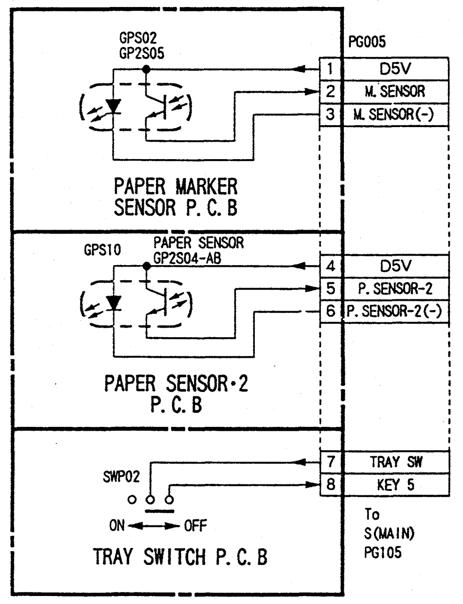
GRAM


5V
(TX)
5V
05
S07AB
ITION
SOR 2
INK CST : ON
INK CASSETTE
SWITCH P.C.B
PG004
2 INK SENSOR
1 D5V
CN006
TPS01
TPS605AF
INK SENSOR
(RX)
INK SENSOR
(RX)P.C.B
3 P.SENSOR 1
2 D5V
1 P.SENSOR 1(-)
PG002
470
GPS09 GP2S05
POSITION SENSOR 1
POSITION
SENSOR 1
P.C.B

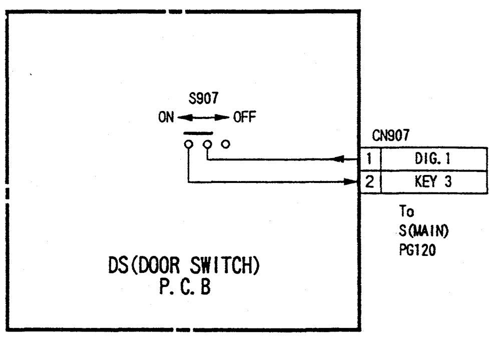
## MOTOR·FG SENSOR SCHEMATIC DIAGRAM


GPS01
GP1S06E
FG SENSOR
MOTOR·FG
SENSOR P.C.B
CN003
1 D5V
2 D.MOTOR FG(+)
3 D.MOTOR FG(-)
4 D.MOTOR (-)
5 D.MOTOR (+)
6 GND
7 M.STATE 1
8 M.STATE 2
9 M.STATE 3
10 M.MOTOR (+)
11 M.MOTOR (-)
DRUM
MOTOR
MECH.
MODE
SWITCH
NSW01
To
S(MAIN)
PG103

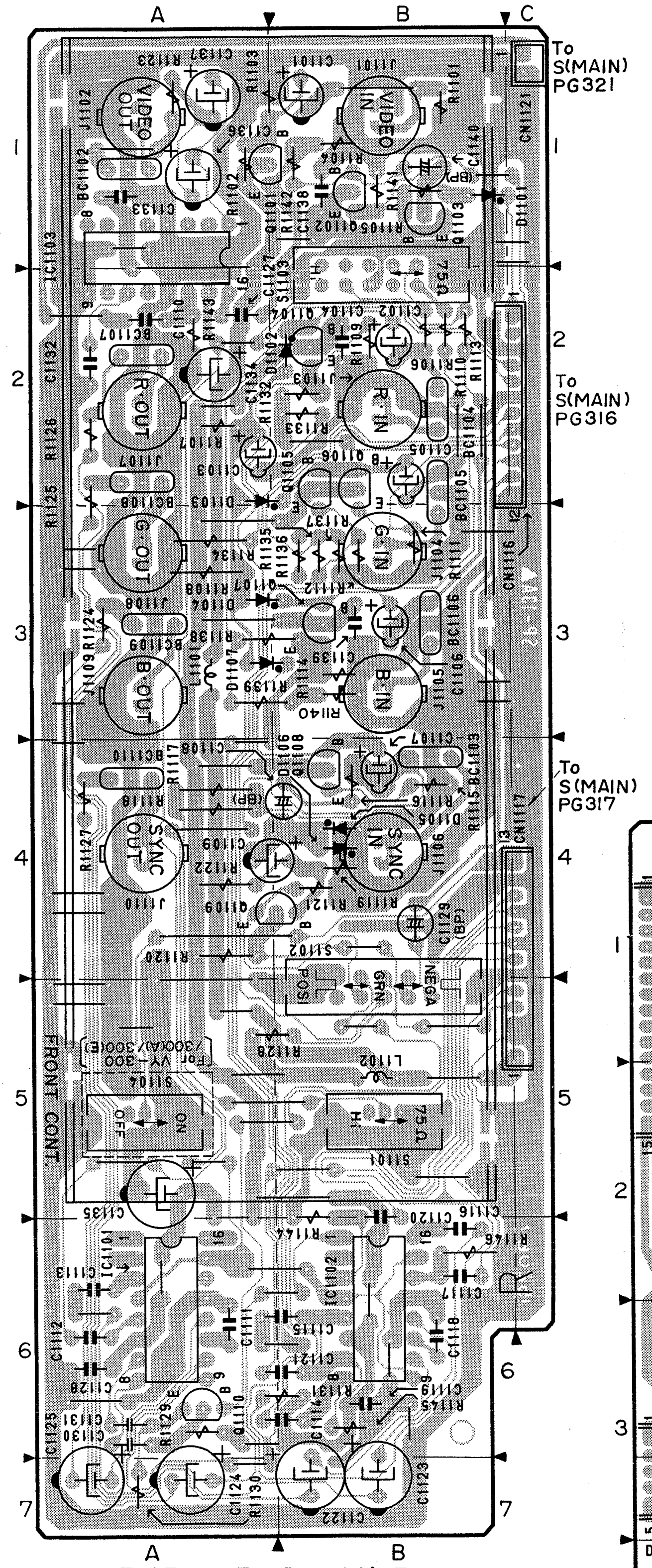
## SENSOR/TRAY SWITCH SCHEMATIC DIAGRAM


GPS02
GP2S05
PG005
1 D5V
2 M.SENSOR
3 M.SENSOR(-)
PAPER MARKER
SENSOR P.C.B
GPS10
PAPER SENSOR
GP2S04-AB
4 D5V
5 P.SENSOR-2
6 P.SENSOR-2(-)
PAPER SENSOR·2
P.C.B
SWP02
ON OFF
TRAY SWITCH P.C.B
7 TRAY SW
8 KEY 5
To
S(MAIN)
PG105

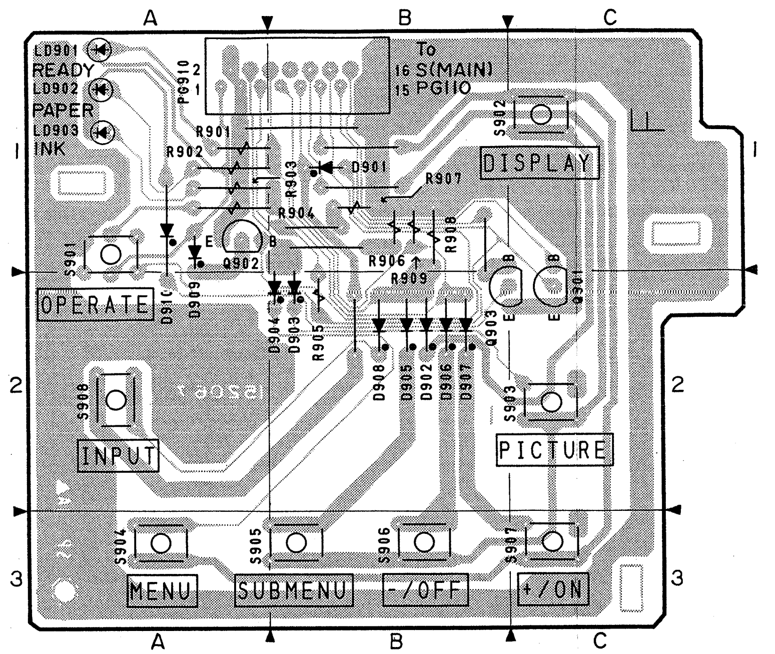
## DS (DOOR SWITCH) SCHEMATIC DIAGRAM


S907
ON OFF
CN907
1 DIG.1
2 KEY 3
To
S(MAIN)
PG120
DS(DOOR SWITCH)
P.C.B

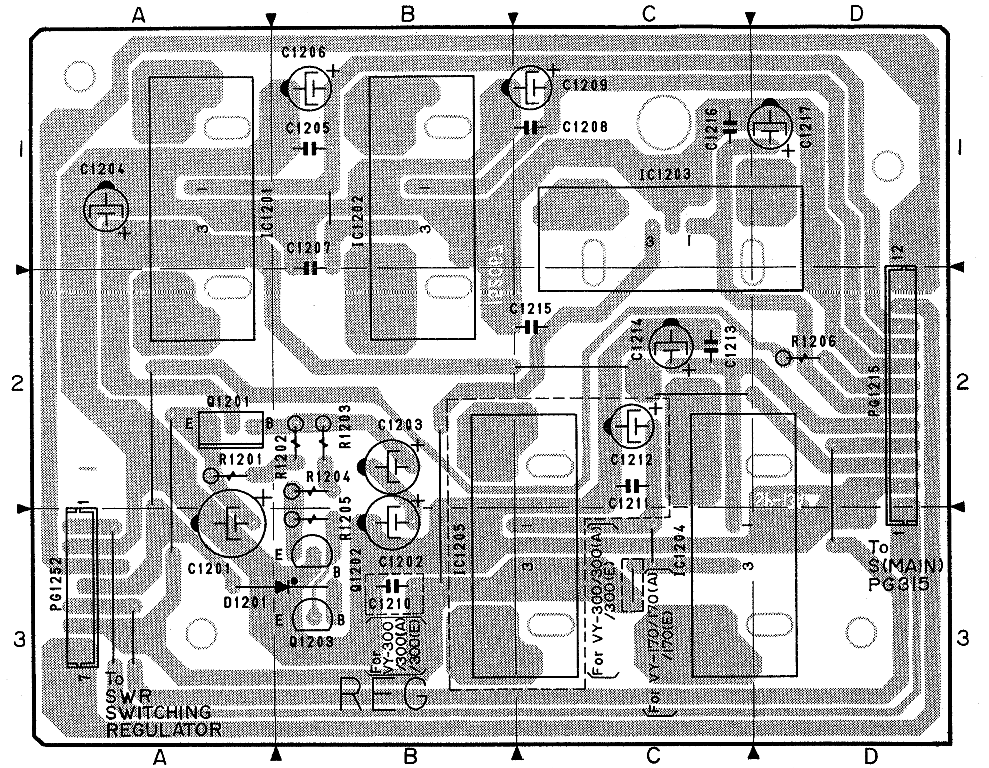
# F (FRONT) /R (REAR JACK) /REG (REGULATOR) /SSG/YC CIRCUIT BOARD DIAGRAMS


To S(MAIN) PG321
To S(MAIN) PG316
To S(MAIN) PG317
VIDEO OUT
VIDEO IN
R-OUT
R-IN
G-OUT
G-IN
B OUT
B-IN
SYNC OUT
SYNC IN
FRONT CONT.
POSI
NEGA
GRN
OFF
ON
For VY-300 /300(A)/300(E)
75Ω
HI
CN1121
CN1116
CN1117
IC1101
IC1102
IC1103
R

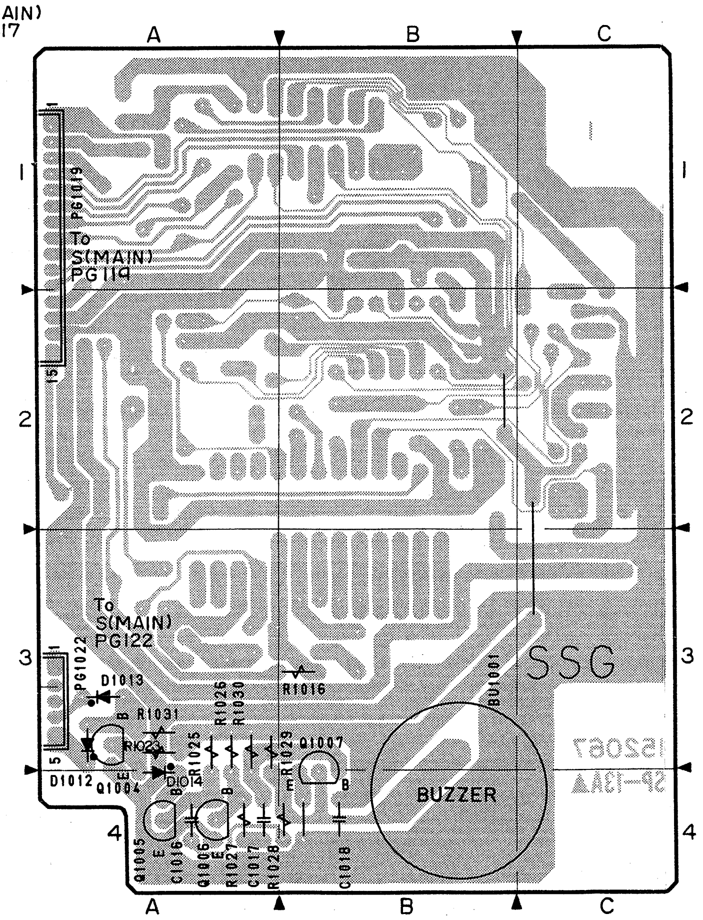
R(REAR JACK) P.C.B


LD901 READY
LD902 PAPER
LD903 INK
To 16 S(MAIN) 15 PG110
PG910
DISPLAY
OPERATE
INPUT
PICTURE
MENU
SUBMENU
-/OFF
+/ON
S901
S902
S903
S904
S905
S906
S907
S908
Q901
Q902
Q903
F

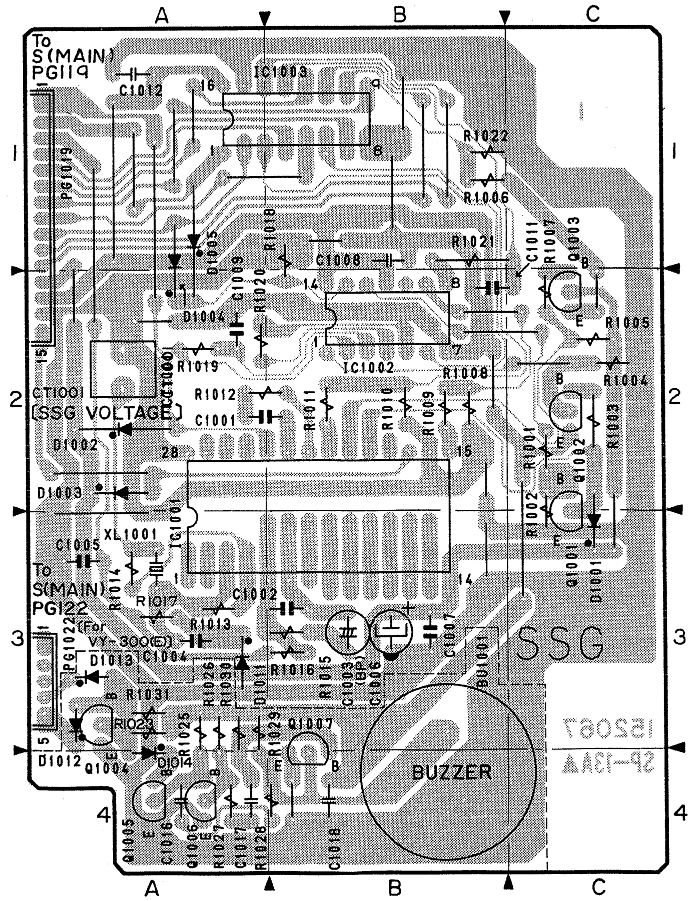
F(FRONT) P.C.B


IC1201
IC1202
IC1203
IC1204
IC1205
Q1201
Q1202
Q1203
D1201
PG1215
PG1252
To S(MAIN) PG315
To SWR SWITCHING REGULATOR
For VY-300/300(A)/300(E)
For VY-170/170(A)/170(E)
REG

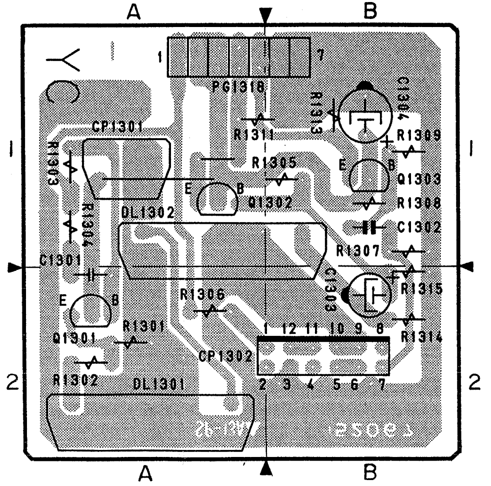
REG (REGULATOR) P.C.B


PG1019
To S(MAIN) PG119
To S(MAIN) PG122
PG1022
BU1001
BUZZER
SSG
Q1004
Q1005
Q1006
Q1007
D1012
D1013
D1014

SSG P.C.B
For VY-300/300(A)


To S(MAIN) PG119
To S(MAIN) PG122
PG1019
PG1022
IC1001
IC1002
IC1003
CT1001 [SSG VOLTAGE]
XL1001
For VY-300(E)
BU1001
BUZZER
SSG

SSG P.C.B
For VY-170(E)
VY-300(E)


YC
PG1318
CP1301
CP1302
DL1301
DL1302
Q1301
Q1302
Q1303

YC P.C.B
For VY-170(E)
VY-300(E)

# IDENTIFICATION OF PARTS LOCATION

## REG P.C.B

| Symbol No. | Parts Location |
|---|---|
| C1201 | 3A |
| C1202 | 3B |
| C1203 | 2B |
| C1204 | 1A |
| C1205 | 1B |
| C1206 | 1B |
| C1207 | 1B |
| C1208 | 1C |
| C1209 | 1C |
| C1210 | 3B |
| C1211 | 2C |
| C1212 | 2C |
| C1213 | 2C |
| C1214 | 2C |
| C1215 | 2C |
| C1216 | 1D |
| C1217 | 1D |
| R1201 | 2A |
| R1202 | 2B |
| R1203 | 2B |
| R1204 | 2B |
| R1205 | 3B |
| R1206 | 2D |
| IC1201 | 1A |
| IC1202 | 1B |
| IC1203 | 1C |
| IC1204 | 2C |
| IC1205 | 2B |
| Q1201 | 2A |
| Q1202 | 3B |
| Q1203 | 3B |
| D1201 | 3B |
| PG1215 | 2D |
| PG1252 | 3A |

## YC P.C.B

| Symbol No. | Parts Location |
|---|---|
| C1301 | 2A |
| C1302 | 1B |
| C1303 | 2B |
| C1304 | 1B |
| R1301 | 2A |
| R1302 | 2A |
| R1303 | 1A |
| R1304 | 1A |
| R1305 | 1B |
| R1306 | 2A |
| R1307 | 1B |
| R1308 | 1B |
| R1309 | 1B |
| R1311 | 1A |
| R1313 | 1B |
| R1314 | 2B |
| R1315 | 2B |
| Q1301 | 2A |
| Q1302 | 1A |
| Q1303 | 1B |
| CP1301 | 1A |
| CP1302 | 2B |
| DL1301 | 2A |
| DL1302 | 1A |
| PG1318 | 1A |

## R (REAR JACK) P.C.B

| Symbol No. | Parts Location |
|---|---|
| C1101 | 1B |
| C1102 | 2B |
| C1103 | 2A |
| C1104 | 2B |
| C1105 | 2B |
| C1106 | 3B |
| C1107 | 4B |
| C1108 | 4B |
| C1109 | 4A |
| C1110 | 2A |
| C1111 | 6A |
| C1112 | 6A |
| C1113 | 6A |
| C1114 | 6B |
| C1115 | 6B |
| C1116 | 6B |
| C1117 | 6B |
| C1118 | 6B |
| C1119 | 6B |
| C1120 | 6B |
| C1121 | 6B |
| C1122 | 7B |
| C1123 | 7B |
| C1124 | 7A |
| C1125 | 7A |
| C1127 | 2A |
| C1128 | 6A |
| C1129 | 4B |
| C1130 | 6A |
| C1131 | 6A |
| C1132 | 2A |
| C1133 | 1A |
| C1134 | 2A |
| C1135 | 5A |
| C1136 | 1A |
| C1137 | 1A |
| C1138 | 1B |
| C1139 | 3B |
| C1140 | 1B |
| R1101 | 1B |
| R1102 | 1A |
| R1103 | 1A |
| R1104 | 1B |
| R1105 | 1B |
| R1106 | 2B |
| R1107 | 2A |
| R1108 | 3A |
| R1109 | 2B |
| R1110 | 2B |
| R1111 | 3B |
| R1112 | 3B |
| R1113 | 2B |
| R1114 | 3B |
| R1115 | 4B |
| R1116 | 4B |
| R1117 | 4A |
| R1118 | 4A |
| R1119 | 4B |
| R1120 | 4A |

| Symbol No. | Parts Location |
|---|---|
| R1121 | 4B |
| R1122 | 4A |
| R1123 | 1A |
| R1124 | 3A |
| R1125 | 2A |
| R1126 | 2A |
| R1127 | 4A |
| R1128 | 5A |
| R1129 | 6A |
| R1130 | 7A |
| R1131 | 6B |
| R1132 | 2B |
| R1133 | 2B |
| R1134 | 3A |
| R1135 | 3B |
| R1136 | 3B |
| R1137 | 3B |
| R1138 | 3A |
| R1139 | 3A |
| R1140 | 3B |
| R1141 | 1B |
| R1142 | 1B |
| R1143 | 2A |
| R1144 | 6B |
| R1145 | 6B |
| R1146 | 6B |
| IC1101 | 6A |
| IC1102 | 6B |
| IC1103 | 1A |
| Q1101 | 1A |
| Q1102 | 1B |
| Q1103 | 1B |
| Q1104 | 2B |
| Q1105 | 2B |
| Q1106 | 2B |
| Q1107 | 3B |
| Q1108 | 4B |
| Q1109 | 4A |
| Q1110 | 6A |
| D1101 | 1C |
| D1102 | 2B |
| D1103 | 2A |
| D1104 | 3A |
| D1105 | 4B |
| D1106 | 4B |
| D1107 | 3A |
| BC1102 | 1A |
| BC1103 | 4B |
| BC1104 | 2B |
| BC1105 | 2B |
| BC1106 | 3B |
| BC1107 | 2A |
| BC1108 | 2A |
| BC1109 | 3A |
| BC1110 | 4A |
| J1101 | 1B |
| J1102 | 1A |
| J1103 | 2B |
| J1104 | 3B |

| Symbol No. | Parts Location |
|---|---|
| J1105 | 3B |
| J1106 | 4B |
| J1107 | 2A |
| J1108 | 3A |
| J1109 | 3A |
| J1110 | 4A |
| S1101 | 5B |
| S1102 | 4B |
| S1103 | 1B |
| S1104 | 5A |
| CN1116 | 2C |
| CN1117 | 4C |
| CN1121 | 1C |
| L1101 | 3A |
| L1102 | 5B |

## F (FRONT) P.C.B

| Symbol No. | Parts Location |
|---|---|
| R901 | 1A |
| R902 | 1A |
| R903 | 1A |
| R904 | 1A |
| R905 | 2B |
| R906 | 1B |
| R907 | 1B |
| R908 | 1B |
| R909 | 1B |
| Q901 | 2C |
| Q902 | 1A |
| Q903 | 2C |
| LD901 | 1A |
| LD902 | 1A |
| LD903 | 1A |
| D901 | 1B |
| D902 | 2B |
| D903 | 2B |
| D904 | 2B |
| D905 | 2B |
| D906 | 2B |
| D907 | 2B |
| D908 | 2B |
| D909 | 1A |
| D910 | 1A |
| S901 | 1A |
| S902 | 1C |
| S903 | 2C |
| S904 | 3A |
| S905 | 3B |
| S906 | 3B |
| S907 | 3C |
| S908 | 2A |
| PG910 | 1B |

## SSG P.C.B

| Symbol No. | Parts Location |
|---|---|
| C1001 | 1A |
| C1002 | 3A |
| C1003 | 3B |
| C1004 | 3A |
| C1005 | 3A |
| C1006 | 3B |
| C1007 | 3B |
| C1008 | 1B |
| C1009 | 2A |
| C1011 | 2B |
| C1012 | 1A |
| C1016 | 4B |
| C1017 | 4B |
| C1018 | 4B |
| R1001 | 2C |
| R1002 | 2C |
| R1003 | 2C |
| R1004 | 2C |
| R1005 | 2C |
| R1006 | 1B |
| R1007 | 2C |
| R1008 | 2B |
| R1009 | 2B |
| R1010 | 2B |
| R1011 | 2B |
| R1012 | 2A |
| R1013 | 3A |
| R1014 | 3A |
| R1015 | 3B |
| R1016 | 3B |
| R1017 | 3A |
| R1018 | 1B |
| R1019 | 2A |
| R1020 | 2A |
| R1021 | 1B |
| R1022 | 1B |
| R1023 | 3A |
| R1025 | 3A |
| R1026 | 3A |
| R1027 | 4B |
| R1028 | 4B |
| R1029 | 3A |
| R1030 | 3A |
| R1031 | 3A |
| IC1001 | 2A |
| IC1002 | 2B |
| IC1003 | 1A |
| Q1001 | 2C |
| Q1002 | 2C |
| Q1003 | 2C |
| Q1004 | 3A |
| Q1005 | 4A |
| Q1006 | 4A |
| Q1007 | 3B |
| D1001 | 2C |
| D1002 | 2A |
| D1003 | 2A |
| D1004 | 1A |
| D1005 | 1A |

| Symbol No. | Parts Location |
|---|---|
| D1011 | 3A |
| D1012 | 3A |
| D1013 | 3A |
| D1014 | 4A |
| CT1001 | 2A |
| XL1001 | 3A |
| BU1001 | 3B |
| PG1019 | 1A |
| PG1022 | 3A |

# IDENTIFICATION OF PARTS LOCATION

## M1 (MEMORY-1) P.C.B

| Symbol No. | Parts Location |
|---|---|
| C701 | 1B |
| C702 | 1B |
| C703 | 1C |
| C704 | 1C |
| C705 | 1C |
| C706 | 1B |
| C707 | 1C |
| C708 | 2C |
| C709 | 1C |
| C710 | 1C |
| C711 | 2C |
| C712 | 2D |
| C713 | 1B |
| C713 | 1B |
| C714 | 1B |
| C715 | 2C |
| C716 | 2C |
| C717 | 2C |
| C718 | 2B |
| C719 | 2B |
| C720 | 2B |
| C721 | 2C |
| C722 | 2C |
| C723 | 2C |
| C724 | 2B |
| C725 | 1E |
| C729 | 2E |
| C730 | 2E |
| C731 | 3E |
| C732 | 2D |
| C733 | 3E |
| C734 | 2H |
| C735 | 2I |
| C736 | 2H |
| C737 | 2I |
| C738 | 1H |
| C739 | 1H |
| C758 | 2A |
| C759 | 1A |
| C760 | 1A |
| C761 | 2A |
| C762 | 2A |
| C763 | 2A |
| C764 | 2A |
| C765 | 3A |
| C766 | 3A |
| C767 | 3A |
| C768 | 3G |
| C769 | 2H |
| C770 | 2H |
| C771 | 1G |
| C778 | 2D |
| C779 | 1I |
| C780 | 1I |
| C781 | 1G |
| C782 | 1F |
| C783 | 1E |
| C784 | 1D |
| C785 | 1C |

| Symbol No. | Parts Location |
|---|---|
| C786 | 1C |
| C787 | 1C |
| R701 | 2C |
| R702 | 2C |
| R703 | 2D |
| R704 | 2D |
| R705 | 2D |
| R706 | 2D |
| R715 | 2E |
| R718 | 2H |
| R719 | 2H |
| R720 | 2A |
| R721 | 2A |
| R722 | 2A |
| R723 | 2A |
| R724 | 1A |
| R725 | 1A |
| R726 | 1A |
| R727 | 1A |
| R728 | 1A |
| R729 | 2A |
| R730 | 2A |
| R731 | 2A |
| R732 | 2A |
| R735 | 2D |
| R736 | 2D |
| IC701 | 1B |
| IC702 | 2B |
| IC703 | 2B |
| IC704 | 2C |
| IC706 | 2E |
| IC707 | 3G |
| IC708 | 2A |
| IC709 | 1I |
| IC710 | 2I |
| IC711 | 2I |
| IC721 | 1E |
| IC722 | 3A |
| IC723 | 2D |
| Q701 | 1A |
| Q702 | 2A |
| Q703 | 1A |
| Q704 | 1A |
| D702 | 2A |
| D703 | 2A |
| D705 | 1B |
| D706 | 1B |
| D707 | 2B |
| L701 | 1C |
| L702 | 2C |
| L703 | 2C |
| L704 | 2C |
| L705 | 3E |
| CT701 | 2H |
| XL701 | 1H |
| XL702 | 1E |
| BC701 | 2H |
| PG711 | 1H |
| PG712 | 1E |

| Symbol No. | Parts Location |
|---|---|
| PG713 | 1C |

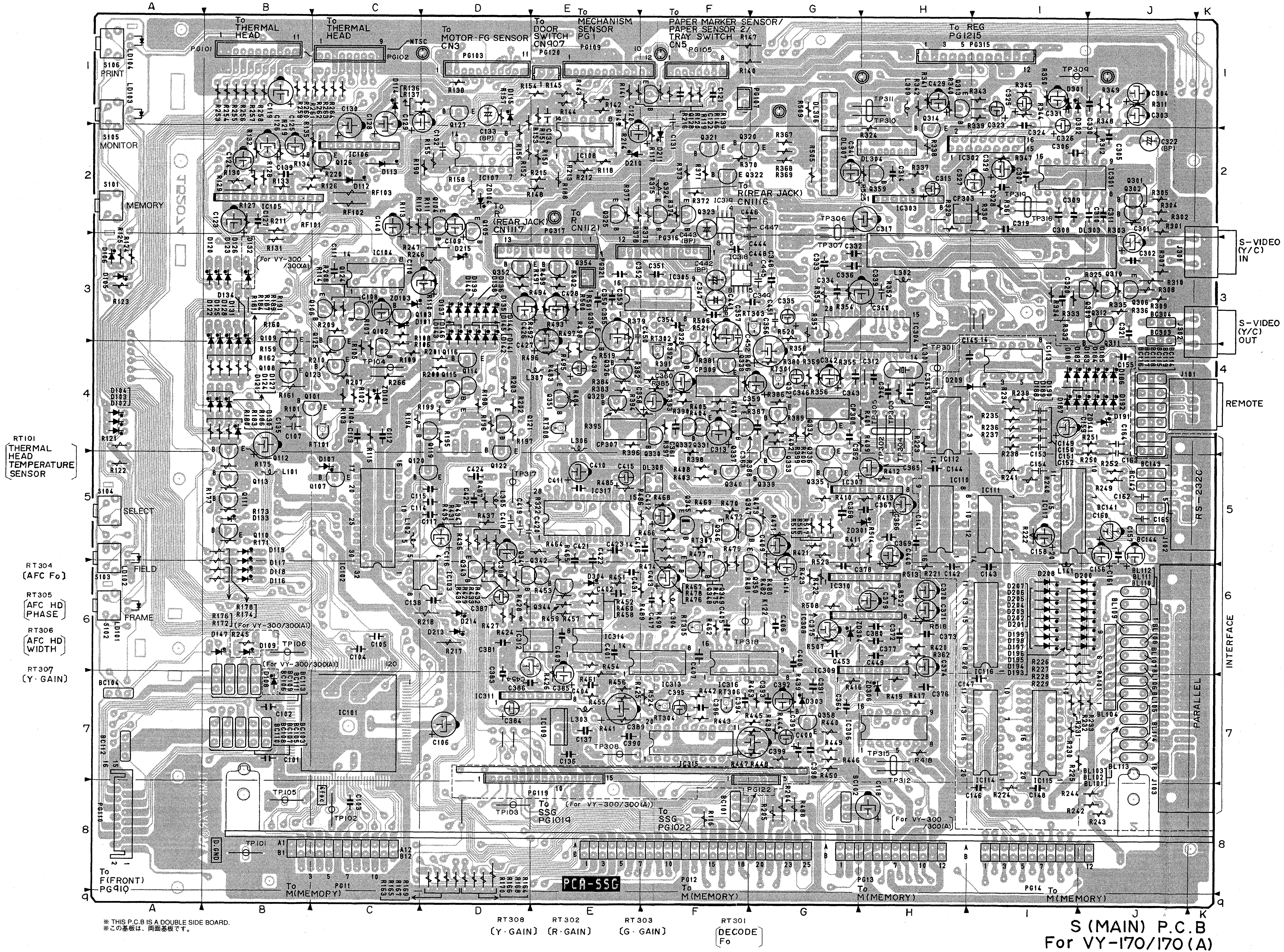
## M2 (MEMORY-2) P.C.B

| Symbol No. | Parts Location |
|---|---|
| C801 | 1A |
| C802 | 1A |
| C803 | 1A |
| C804 | 1A |
| C805 | 1A |
| C806 | 2A |
| C807 | 2B |
| C808 | 2B |
| C809 | 2B |
| C810 | 2B |
| C811 | 2B |
| C812 | 3C |
| C813 | 2A |
| C814 | 2A |
| C815 | 2A |
| C816 | 2A |
| C817 | 2A |
| C818 | 2A |
| C819 | 2A |
| C820 | 2A |
| C821 | 2A |
| C822 | 2A |
| C823 | 2A |
| C824 | 3A |
| C825 | 2B |
| C826 | 1C |
| C827 | 1B |
| C828 | 1B |
| C829 | 1D |
| C830 | 1C |
| C831 | 1C |
| C832 | 1C |
| C833 | 2C |
| C834 | 1F |
| C835 | 1F |
| C836 | 2F |
| C837 | 2G |
| C838 | 2F |
| C839 | 2G |
| C840 | 1F |
| C841 | 1F |
| C842 | 2G |
| C843 | 2G |
| C844 | 2G |
| C845 | 2G |
| C846 | 1H |
| C847 | 1H |
| C848 | 2H |
| C849 | 2H |
| C850 | 2H |
| C851 | 2H |
| C852 | 1H |
| C853 | 1I |
| C854 | 2H |
| C855 | 2I |
| C856 | 2H |
| C857 | 2I |
| C858 | 2C |
| C859 | 2C |

| Symbol No. | Parts Location |
|---|---|
| C860 | 2D |
| C861 | 2C |
| C862 | 2D |
| C863 | 3D |
| C864 | 3D |
| C865 | 3C |
| C866 | 2C |
| C867 | 2D |
| C868 | 3E |
| C869 | 2F |
| C870 | 1F |
| C871 | 1E |
| C878 | 2C |
| C879 | 1G |
| R801 | 2B |
| R802 | 2B |
| R803 | 2B |
| R804 | 2B |
| R805 | 2C |
| R806 | 2C |
| R807 | 2B |
| R808 | 2B |
| R809 | 2B |
| R810 | 1B |
| R811 | 1B |
| R812 | 1B |
| R813 | 1B |
| R814 | 1B |
| R815 | 1D |
| R818 | 1F |
| R819 | 1F |
| R820 | 2D |
| R821 | 2D |
| R822 | 2C |
| R823 | 2D |
| R824 | 2C |
| R825 | 2D |
| R826 | 2D |
| R827 | 2C |
| R828 | 3C |
| R829 | 3D |
| R830 | 3C |
| R831 | 3D |
| R832 | 3C |
| R833 | 3F |
| IC801 | 1A |
| IC802 | 2A |
| IC803 | 3A |
| IC804 | 2B |
| IC805 | 1B |
| IC806 | 1C |
| IC807 | 2E |
| IC808 | 2D |
| IC809 | 1F |
| IC810 | 2F |
| IC811 | 2F |
| IC812 | 1G |
| IC813 | 2G |
| IC814 | 2G |

| Symbol No. | Parts Location |
|---|---|
| IC815 | 1H |
| IC816 | 2G |
| IC817 | 2G |
| IC818 | 1I |
| IC819 | 2I |
| IC820 | 2I |
| IC821 | 1D |
| IC822 | 2C |
| IC823 | 3F |
| IC824 | 1G |
| IC825 | 1G |
| Q801 | 2D |
| Q802 | 2D |
| Q803 | 3C |
| Q804 | 3C |
| D802 | 2D |
| D803 | 2D |
| D804 | 3F |
| D805 | 1A |
| D806 | 2A |
| D807 | 2A |
| PG811 | 1H |
| PG812 | 1E |
| PG813 | 1C |
| PG814 | 1B |
| BC801 | 3D |
| XL801 | 1F |
| XL802 | 1C |
| XL803 | 1B |
| CT801 | 1E |
| L801 | 2A |
| L802 | 2B |
| L803 | 2A |
| L804 | 3A |
| L805 | 1C |

# S (MAIN) CIRCUIT BOARD DIAGRAM [For NTSC]


To THERMAL HEAD
To THERMAL HEAD
NTSC
To MOTOR-FG SENSOR CN3
To DOOR SWITCH CN907
To MECHANISM SENSOR PG1
To PAPER MARKER SENSOR/ PAPER SENSOR 2/ TRAY SWITCH CN5
To REG PG1215
S106 PRINT
S105 MONITOR
S101 MEMORY
S104 SELECT
S103 FIELD
S102 FRAME
RT101 THERMAL HEAD TEMPERATURE SENSOR
RT304 (AFC Fo)
RT305 (AFC HD PHASE)
RT306 (AFC HD WIDTH)
RT307 (Y·GAIN)
To R(REAR JACK) CN1116
To R(REAR JACK) CN1117
To R CN1121
For VY-300/300(A)
S-VIDEO (Y/C) IN
S-VIDEO (Y/C) OUT
REMOTE
RS-232C
INTERFACE
PARALLEL
IC101
To SSG PG1019
To SSG PG1022
PCA-SSG
D.GND
To F(FRONT) PG910
To M(MEMOPY) PG11
To M(MEMORY) PG12
To M(MEMORY) PG13
To M(MEMORY) PG14
RT308 (Y·GAIN)
RT302 (R·GAIN)
RT303 (G·GAIN)
RT301 (DECODE Fo)
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9

※ THIS P.C.B IS A DOUBLE SIDE BOARD.
※この基板は、両面基板です。

S (MAIN) P.C.B
For VY-170/170(A)
VY-300/300(A)

# IDENTIFICATION OF PARTS LOCATION

## S(MAIN) P.C.B [For PAL] −1/2−

| Symbol No. | Parts Location |
|---|---|
| C101 | 7B |
| C102 | 7B |
| C103 | 8C |
| C104 | 6C |
| C105 | 6C |
| C106 | 7D |
| C107 | 4B |
| C108 | 3C |
| C109 | 3D |
| C110 | 3C |
| C111 | 3C |
| C112 | 4C |
| C113 | 4C |
| C114 | 5C |
| C115 | 5C |
| C116 | 5D |
| C117 | 5D |
| C118 | 8H |
| C119 | 1B |
| C120 | 1E |
| C121 | 1F |
| C122 | 1F |
| C123 | 2B |
| C124 | 2B |
| C125 | 1B |
| C126 | 1B |
| C127 | 2B |
| C128 | 1C |
| C129 | 1C |
| C130 | 1C |
| C131 | 2F |
| C132 | 2D |
| C133 | 2D |
| C134 | 2E |
| C135 | 4B |
| C136 | 7E |
| C137 | 7E |
| C138 | 6C |
| C139 | 2B |
| C140 | 2C |
| C141 | 5H |
| C142 | 6H |
| C143 | 6I |
| C144 | 5H |
| C145 | 3I |
| C146 | 8I |
| C147 | 7I |
| C148 | 8I |
| C149 | 4I |
| C150 | 4I |
| C151 | 5I |
| C152 | 5I |
| C153 | 5I |
| C154 | 5I |
| C155 | 4J |
| C156 | 6J |
| C157 | 5J |
| C158 | 5J |
| C159 | 4J |

| Symbol No. | Parts Location |
|---|---|
| C160 | 5J |
| C161 | 6J |
| C162 | 5J |
| C163 | 5J |
| C164 | 4J |
| C165 | 5J |
| R101 | 4B |
| R102 | 4C |
| R103 | 4C |
| R104 | 4C |
| R105 | 4C |
| R106 | 4D |
| R107 | 3C |
| R108 | 3D |
| R109 | 4C |
| R110 | 3D |
| R111 | 2D |
| R112 | 2C |
| R113 | 2C |
| R114 | 3C |
| R115 | 5C |
| R116 | 8F |
| R117 | 2F |
| R118 | 2E |
| R119 | 1F |
| R120 | 1F |
| R121 | 4A |
| R122 | 5A |
| R123 | 3A |
| R124 | 3A |
| R125 | 3A |
| R126 | 2C |
| R127 | 2B |
| R128 | 2B |
| R129 | 2B |
| R130 | 2B |
| R131 | 3B |
| R132 | 2B |
| R133 | 2B |
| R134 | 2B |
| R135 | 2B |
| R136 | 1C |
| R137 | 1C |
| R138 | 1D |
| R139 | 1F |
| R140 | 1F |
| R141 | 1E |
| R142 | 1E |
| R143 | 1E |
| R144 | 1E |
| R145 | 1E |
| R146 | 1F |
| R147 | 1F |
| R148 | 2E |
| R149 | 1E |
| R150 | 2E |
| R151 | 2E |
| R152 | 2D |
| R153 | 2E |

| Symbol No. | Parts Location |
|---|---|
| R154 | 1E |
| R155 | 2D |
| R156 | 2D |
| R157 | 1D |
| R158 | 2D |
| R159 | 4B |
| R160 | 3B |
| R161 | 4B |
| R162 | 4B |
| R163 | 8C |
| R164 | 8D |
| R165 | 8C |
| R166 | 8D |
| R167 | 8C |
| R168 | 8D |
| R169 | 8C |
| R170 | 8D |
| R171 | 5B |
| R172 | 6B |
| R173 | 5B |
| R174 | 6B |
| R175 | 5B |
| R176 | 6B |
| R177 | 5B |
| R178 | 6B |
| R180 | 4B |
| R181 | 3B |
| R183 | 4B |
| R184 | 3B |
| R186 | 4B |
| R187 | 3B |
| R188 | 2E |
| R189 | 3B |
| R190 | 2C |
| R191 | 3B |
| R192 | 4D |
| R193 | 4D |
| R194 | 4C |
| R195 | 4D |
| R196 | 4D |
| R197 | 4D |
| R198 | 4D |
| R199 | 4D |
| R200 | 4D |
| R201 | 4D |
| R202 | 4D |
| R203 | 4D |
| R204 | 8G |
| R205 | 8G |
| R207 | 4C |
| R208 | 3C |
| R209 | 3C |
| R210 | 4C |
| R211 | 2B |
| R212 | 2E |
| R213 | 2E |
| R214 | 2E |
| R215 | 2E |
| R216 | 1F |

| Symbol No. | Parts Location |
|---|---|
| R217 | 6D |
| R218 | 6D |
| R129 | 2B |
| R220 | 2C |
| R221 | 6H |
| R222 | 5I |
| R223 | 4H |
| R224 | 8I |
| R225 | 7I |
| R226 | 6I |
| R227 | 6I |
| R228 | 7I |
| R229 | 7I |
| R230 | 7I |
| R231 | 7I |
| R232 | 7J |
| R233 | 7J |
| R234 | 4I |
| R235 | 4I |
| R236 | 4I |
| R237 | 4I |
| R238 | 4I |
| R239 | 4I |
| R240 | 5I |
| R241 | 5I |
| R242 | 8I |
| R243 | 8J |
| R244 | 8I |
| R245 | 6B |
| R246 | 3C |
| R247 | 3C |
| R249 | 5J |
| R250 | 5J |
| R251 | 4J |
| R252 | 5J |
| R253 | 1B |
| R254 | 1B |
| R255 | 1B |
| R256 | 1B |
| R257 | 1B |
| R258 | 1B |
| R259 | 1B |
| R260 | 1B |
| R261 | 1B |
| R262 | 1C |
| R263 | 1C |
| R264 | 1C |
| R266 | 4C |
| IC101 | 7C |
| IC102 | 6C |
| IC103 | 6D |
| IC104 | 3C |
| IC105 | 2B |
| IC106 | 2C |
| IC107 | 2D |
| IC108 | 2E |
| IC109 | 7E |
| IC110 | 5H |
| IC111 | 5I |

| Symbol No. | Parts Location |
|---|---|
| IC112 | 5H |
| IC113 | 4I |
| IC114 | 7I |
| IC115 | 7I |
| IC116 | 6I |
| IC117 | 5I |
| Q101 | 4C |
| Q102 | 3C |
| Q103 | 3C |
| Q104 | 2D |
| Q105 | 2D |
| Q106 | 3C |
| Q107 | 5C |
| Q109 | 3B |
| Q110 | 5B |
| Q111 | 5B |
| Q112 | 5B |
| Q113 | 5B |
| Q114 | 4D |
| Q115 | 4D |
| Q116 | 4D |
| Q117 | 4D |
| Q118 | 5D |
| Q119 | 4D |
| Q120 | 5C |
| Q121 | 4D |
| Q122 | 5D |
| Q123 | 4C |
| Q124 | 3C |
| Q125 | 3C |
| Q126 | 2C |
| Q127 | 2D |
| Q128 | 1F |
| L101 | 5B |
| L102 | 5C |
| L141 | 6I |
| D101 | 3C |
| D102 | 4A |
| D103 | 4A |
| D104 | 4A |
| D105 | 3A |
| D106 | 3A |
| D107 | 5C |
| D108 | 7B |
| D109 | 6B |
| D112 | 2C |
| D113 | 2C |
| D114 | 1C |
| D115 | 1D |
| D116 | 6B |
| D117 | 6B |
| D118 | 6B |
| D119 | 5B |
| D120 | 3B |
| D121 | 4B |
| D122 | 3B |
| D123 | 3B |
| D124 | 4B |
| D125 | 3B |

| Symbol No. | Parts Location |
|---|---|
| D126 | 3B |
| D127 | 4B |
| D128 | 3B |
| D130 | 4B |
| D131 | 3B |
| D132 | 3B |
| D133 | 5B |
| D134 | 3B |
| D135 | 3D |
| D136 | 3D |
| D137 | 3D |
| D138 | 3D |
| D139 | 3D |
| D140 | 3D |
| D141 | 4D |
| D142 | 4D |
| D143 | 3D |
| D144 | 3D |
| D145 | 3D |
| D146 | 3D |
| D147 | 6B |
| D148 | 7A |
| D181 | 4I |
| D182 | 4I |
| D183 | 4J |
| D184 | 4J |
| D185 | 4J |
| D186 | 4J |
| D187 | 4I |
| D188 | 4I |
| D189 | 4I |
| D190 | 4I |
| D191 | 4J |
| D192 | 4J |
| D193 | 6I |
| D194 | 6I |
| D195 | 6I |
| D196 | 6I |
| D197 | 6I |
| D198 | 6I |
| D199 | 6I |
| D200 | 6I |
| D201 | 6I |
| D202 | 6I |
| D203 | 6I |
| D204 | 6I |
| D205 | 6I |
| D206 | 6I |
| D207 | 6I |
| D208 | 6I |
| D209 | 4H |
| D210 | 2E |
| D211 | 2F |
| D213 | 6D |
| D214 | 6D |
| D215 | 3D |
| RT101 | 4C |
| PG11 | 8C |
| PG12 | 8F |

| Symbol No. | Parts Location |
|---|---|
| PG13 | 8H |
| PG14 | 8I |
| PG103 | 1D |
| PG105 | 1F |
| PG107 | 1G |
| PG109 | 1E |
| PG110 | 8A |
| PG119 | 8E |
| PG120 | 1E |
| PG122 | 8G |
| PG123 | 1A |
| PG124 | 1C |
| J101 | 4J |
| J102 | 5J |
| J103 | 7J |
| BC101 | 8F |
| BC102 | 8G |
| BC103 | 7B |
| BC104 | 7A |
| BC105 | 7B |
| BC106 | 7B |
| BC107 | 7B |
| BC108 | 7B |
| BC109 | 7B |
| BC110 | 7B |
| BC111 | 7B |
| BC112 | 7A |
| BC113 | 7B |
| BC114 | 4J |
| BC115 | 4J |
| BC116 | 4J |
| BC117 | 4J |
| BC118 | 4J |
| BC119 | 4J |
| BC141 | 5J |
| BC142 | 5J |
| BC143 | 5J |
| BC144 | 5J |
| TP101 | 8B |
| TP102 | 8C |
| TP103 | 8D |
| TP104 | 4C |
| TP105 | 8B |
| TP106 | 6B |
| RA101 | 6J |
| ZD101 | 4C |
| ZD103 | 3C |
| ZD104 | 2D |
| ZD141 | 4J |
| S101 | 1A |
| S102 | 6A |
| S103 | 6A |
| S104 | 5A |
| S105 | 1A |
| S106 | 1B |
| LD101 | 6A |
| LD102 | 6A |
| LD103 | 1A |
| LD104 | 1A |

| Symbol No. | Parts Location |
|---|---|
| BL101 | 7J |
| BL102 | 7J |
| BL103 | 7J |
| BL104 | 7J |
| BL105 | 7J |
| BL106 | 7J |
| BL107 | 6J |
| BL108 | 6J |
| BL109 | 6J |
| BL110 | 6J |
| BL111 | 6J |
| BL112 | 6J |
| BL113 | 7J |
| BL114 | 7J |
| RF101 | 2C |
| RF102 | 2C |
| RF103 | 2C |

# IDENTIFICATION OF PARTS LOCATION

## S(MAIN) P.C.B [For PAL] −2/2−

| Symbol No. | Parts Location |
|---|---|
| C301 | 3J |
| C302 | 3J |
| C303 | 1J |
| C304 | 1J |
| C305 | 2J |
| C306 | 2I |
| C307 | 2I |
| C308 | 2I |
| C309 | 2I |
| C310 | 2J |
| C311 | 2J |
| C312 | 4H |
| C313 | 4F |
| C314 | 2H |
| C315 | 2H |
| C319 | 2I |
| C320 | 3I |
| C321 | 3J |
| C322 | 2J |
| C323 | 1I |
| C324 | 2I |
| C325 | 1I |
| C326 | 2I |
| C327 | 2H |
| C328 | 2I |
| C329 | 2I |
| C330 | 1J |
| C331 | 1I |
| C332 | 3G |
| C333 | 3G |
| C334 | 3G |
| C335 | 3G |
| C336 | 3G |
| C337 | 3H |
| C338 | 3H |
| C339 | 3G |
| C340 | 3H |
| C341 | 2G |
| C342 | 4G |
| C343 | 4G |
| C344 | 4H |
| C345 | 4H |
| C346 | 4G |
| C347 | 3F |
| C348 | 3G |
| C349 | 3G |
| C350 | 3E |
| C351 | 3F |
| C352 | 3E |
| C353 | 3E |
| C354 | 3F |
| C355 | 3E |
| C356 | 3G |
| C357 | 3F |
| C358 | 4F |
| C359 | 4G |
| C360 | 4F |
| C361 | 4F |
| C362 | 4G |

| Symbol No. | Parts Location |
|---|---|
| C363 | 4G |
| C364 | 7G |
| C365 | 5H |
| C366 | 5H |
| C367 | 5H |
| C368 | 5G |
| C369 | 5H |
| C370 | 6H |
| C371 | 6H |
| C372 | 6H |
| C373 | 6H |
| C374 | 6H |
| C375 | 6G |
| C376 | 7H |
| C377 | 6H |
| C378 | 6H |
| C379 | 6H |
| C380 | 6H |
| C381 | 6D |
| C383 | 6D |
| C384 | 7D |
| C385 | 7E |
| C386 | 7D |
| C387 | 6D |
| C388 | 5D |
| C389 | 7E |
| C390 | 7E |
| C391 | 7G |
| C392 | 7G |
| C393 | 7G |
| C394 | 7F |
| C395 | 7F |
| C396 | 7F |
| C397 | 7G |
| C398 | 7G |
| C399 | 7G |
| C400 | 7G |
| C401 | 6E |
| C402 | 6E |
| C403 | 6E |
| C404 | 7E |
| C405 | 6F |
| C406 | 6G |
| C407 | 6F |
| C408 | 6G |
| C409 | 5G |
| C410 | 5E |
| C411 | 5E |
| C412 | 5F |
| C413 | 6F |
| C414 | 6G |
| C415 | 5E |
| C416 | 5F |
| C417 | 6F |
| C418 | 5D |
| C419 | 5D |
| C420 | 5D |
| C421 | 5E |
| C422 | 5E |

| Symbol No. | Parts Location |
|---|---|
| C423 | 5E |
| C424 | 5D |
| C425 | 5D |
| C426 | 3D |
| C427 | 3E |
| C428 | 3E |
| C429 | 1H |
| C430 | 4E |
| C431 | 6E |
| C440 | 5H |
| C441 | 3F |
| C442 | 3F |
| C443 | 2F |
| C444 | 3F |
| C445 | 3G |
| C446 | 2F |
| C447 | 2F |
| C448 | 3G |
| C449 | 6H |
| C450 | 3E |
| C451 | 3G |
| C452 | 3F |
| C453 | 6G |
| C454 | 6D |
| R301 | 2J |
| R302 | 2J |
| R303 | 2J |
| R304 | 2J |
| R305 | 2J |
| R307 | 3J |
| R308 | 3J |
| R309 | 3J |
| R310 | 3J |
| R311 | 1J |
| R312 | 2J |
| R322 | 5D |
| R323 | 6E |
| R324 | 2H |
| R325 | 3J |
| R332 | 3I |
| R333 | 3I |
| R334 | 3I |
| R335 | 3J |
| R336 | 3J |
| R338 | 2H |
| R339 | 1I |
| R340 | 1H |
| R341 | 1H |
| R342 | 1H |
| R343 | 1I |
| R344 | 1I |
| R345 | 1I |
| R347 | 2I |
| R348 | 1J |
| R349 | 1J |
| R350 | 1I |
| R351 | 3H |
| R352 | 3H |
| R353 | 3G |

| Symbol No. | Parts Location |
|---|---|
| R354 | 3G |
| R355 | 4G |
| R356 | 4G |
| R357 | 3G |
| R358 | 4G |
| R359 | 4G |
| R360 | 4H |
| R361 | 2I |
| R362 | 6H |
| R367 | 2G |
| R368 | 2G |
| R369 | 2G |
| R370 | 2F |
| R371 | 2F |
| R372 | 2F |
| R373 | 2F |
| R374 | 2F |
| R375 | 2F |
| R376 | 2F |
| R377 | 2E |
| R378 | 2E |
| R379 | 3E |
| R380 | 4G |
| R381 | 4F |
| R382 | 4E |
| R383 | 4E |
| R384 | 4E |
| R385 | 4F |
| R386 | 4G |
| R387 | 4G |
| R388 | 4G |
| R389 | 4G |
| R390 | 4F |
| R391 | 4F |
| R392 | 3F |
| R393 | 4F |
| R394 | 4E |
| R395 | 4E |
| R396 | 4E |
| R397 | 4F |
| R398 | 5F |
| R399 | 4G |
| R400 | 4G |
| R401 | 4H |
| R402 | 4G |
| R403 | 5F |
| R404 | 4F |
| R405 | 4F |
| R406 | 4F |
| R407 | 4F |
| R408 | 5F |
| R409 | 4H |
| R410 | 5G |
| R411 | 5G |
| R412 | 5H |
| R413 | 5H |
| R416 | 7G |
| R417 | 7H |
| R418 | 7H |

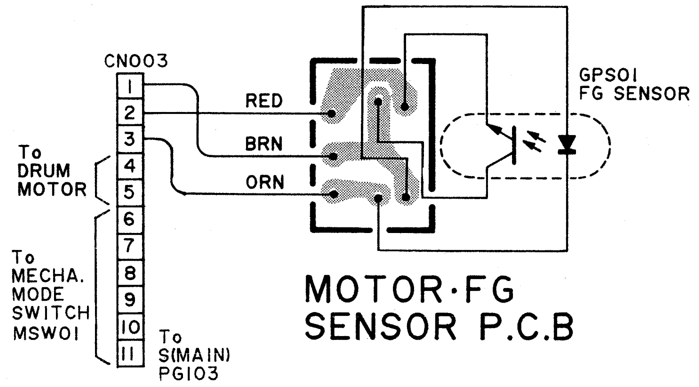
| Symbol No. | Parts Location |
|---|---|
| R419 | 7H |
| R420 | 6H |
| R421 | 5G |
| R422 | 6G |
| R423 | 6G |
| R424 | 6D |
| R425 | 7E |
| R426 | 7E |
| R427 | 6D |
| R428 | 6D |
| R429 | 6D |
| R430 | 6D |
| R431 | 5D |
| R432 | 6D |
| R433 | 6D |
| R434 | 5D |
| R435 | 5D |
| R436 | 5D |
| R437 | 5D |
| R438 | 7G |
| R439 | 7G |
| R440 | 7G |
| R441 | 7E |
| R442 | 7F |
| R443 | 7F |
| R444 | 7G |
| R445 | 7G |
| R446 | 7G |
| R447 | 7F |
| R448 | 7G |
| R449 | 7G |
| R450 | 7G |
| R451 | 6E |
| R452 | 6E |
| R453 | 6E |
| R454 | 6E |
| R455 | 7E |
| R456 | 7E |
| R457 | 6E |
| R458 | 6E |
| R459 | 6E |
| R460 | 6E |
| R461 | 7E |
| R462 | 6F |
| R463 | 7G |
| R464 | 5E |
| R465 | 5E |
| R466 | 5F |
| R467 | 6F |
| R468 | 5F |
| R469 | 5F |
| R470 | 5F |
| R471 | 5G |
| R472 | 5F |
| R473 | 5G |
| R474 | 6F |
| R475 | 6F |
| R476 | 6F |
| R477 | 5F |

| Symbol No. | Parts Location |
|---|---|
| R478 | 6F |
| R479 | 5F |
| R480 | 6G |
| R481 | 6G |
| R482 | 6G |
| R483 | 4E |
| R484 | 4E |
| R485 | 5E |
| R486 | 5E |
| R487 | 5D |
| R488 | 8G |
| R489 | 6F |
| R490 | 6F |
| R491 | 3E |
| R492 | 3D |
| R493 | 3E |
| R494 | 3E |
| R495 | 4E |
| R496 | 4E |
| R497 | 4E |
| R498 | 3E |
| R499 | 3E |
| R500 | 3E |
| R501 | 3E |
| R502 | 3E |
| R503 | 3I |
| R504 | 3H |
| R505 | 2G |
| R506 | 3F |
| R507 | 6G |
| R508 | 6G |
| R509 | 1G |
| R513 | 6H |
| R514 | 5H |
| R515 | 5G |
| R516 | 5G |
| R517 | 5G |
| R518 | 6H |
| R519 | 4E |
| R520 | 3G |
| R521 | 3F |
| R522 | 6H |
| R523 | 5G |
| R525 | 2H |
| IC301 | 2J |
| IC302 | 2H |
| IC303 | 2H |
| IC304 | 3H |
| IC305 | 3F |
| IC306 | 7G |
| IC307 | 5G |
| IC308 | 6G |
| IC309 | 6G |
| IC310 | 6G |
| IC311 | 7D |
| IC312 | 6D |
| IC313 | 7F |
| IC314 | 6E |
| | |

| Symbol No. | Parts Location |
|---|---|
| IC315 | 7F |
| IC316 | 7F |
| IC317 | 5E |
| IC319 | 2F |
| Q301 | 2J |
| Q302 | 2J |
| Q306 | 3J |
| Q309 | 3J |
| Q310 | 3J |
| Q311 | 3J |
| Q312 | 3J |
| Q313 | 1H |
| Q314 | 1H |
| Q320 | 2F |
| Q321 | 2F |
| Q322 | 2F |
| Q323 | 2F |
| Q324 | 2F |
| Q325 | 2E |
| Q326 | 4E |
| Q327 | 4G |
| Q328 | 3F |
| Q329 | 4E |
| Q330 | 4F |
| Q331 | 4F |
| Q332 | 4F |
| Q333 | 5G |
| Q334 | 4G |
| Q335 | 5G |
| Q336 | 5G |
| Q337 | 4F |
| Q338 | 4F |
| Q339 | 5G |
| Q340 | 5F |
| Q341 | 5D |
| Q342 | 5E |
| Q343 | 6D |
| Q344 | 6E |
| Q345 | 5F |
| Q346 | 5F |
| Q347 | 5F |
| Q348 | 6F |
| Q349 | 6F |
| Q350 | 6G |
| Q351 | 4E |
| Q352 | 3D |
| Q353 | 3E |
| Q354 | 3E |
| Q358 | 7G |
| Q359 | 2H |
| L301 | 3I |
| L302 | 3H |
| L303 | 7E |
| L304 | 6F |
| L305 | 5D |
| L306 | 4E |
| L307 | 4E |
| L309 | 1H |
| D301 | 1I |

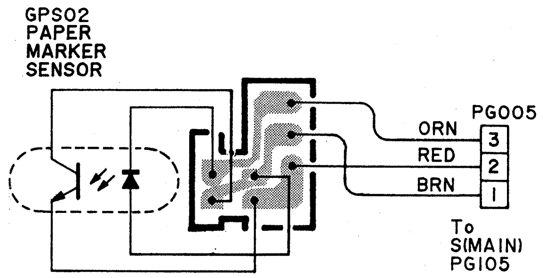
| Symbol No. | Parts Location |
|---|---|
| D302 | 1I |
| D303 | 7G |
| D304 | 6E |
| DL305 | 3H |
| DL306 | 1G |
| DL307 | 2G |
| DL308 | 5F |
| LT301 | 3I |
| CP307 | 4E |
| CP308 | 4G |
| CP309 | 4F |
| XL301 | 4H |
| RT301 | 4G |
| RT302 | 3F |
| RT303 | 3F |
| RT304 | 7F |
| RT305 | 6F |
| RT306 | 7F |
| RT307 | 5F |
| RT308 | 4E |
| RT310 | 3H |
| PG315 | 1I |
| PG316 | 3F |
| PG317 | 2E |
| PG318 | 3G |
| PG321 | 3E |
| J301 | 3J |
| J302 | 3J |
| BC303 | 3J |
| BC304 | 3J |
| TP301 | 4H |
| TP302 | 4H |
| TP303 | 4H |
| TP304 | 4H |
| TP305 | 4H |
| TP306 | 2G |
| TP307 | 3G |
| TP308 | 7E |
| TP309 | 1I |
| TP310 | 1H |
| TP311 | 1H |
| TP312 | 7H |
| TP315 | 7H |
| TP316 | 2I |
| TP317 | 5D |
| TP318 | 6F |
| TP319 | 2I |
| ZD301 | 5G |
| ZD304 | 6H |
| ZD306 | 7H |

## MOTOR·FG SENSOR


CN003
1
2
3
4
5
6
7
8
9
10
11
To DRUM MOTOR
To MECHA. MODE SWITCH MSW01
To S(MAIN) PG103
RED
BRN
ORN
GPS01 FG SENSOR

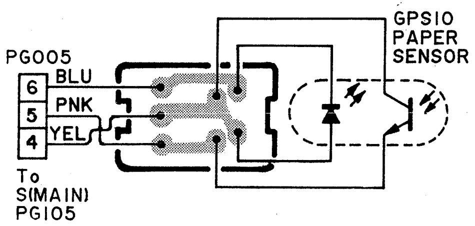
**MOTOR·FG SENSOR P.C.B**

## PAPER MARKER SENSOR


GPS02 PAPER MARKER SENSOR
PG005
ORN
RED
BRN
3
2
1
To S(MAIN) PG105

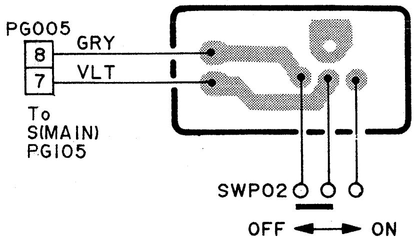
**PAPER MARKER SENSOR P.C.B**

## PAPER SENSOR2


GPS10 PAPER SENSOR
PG005
6
5
4
BLU
PNK
YEL
To S(MAIN) PG105

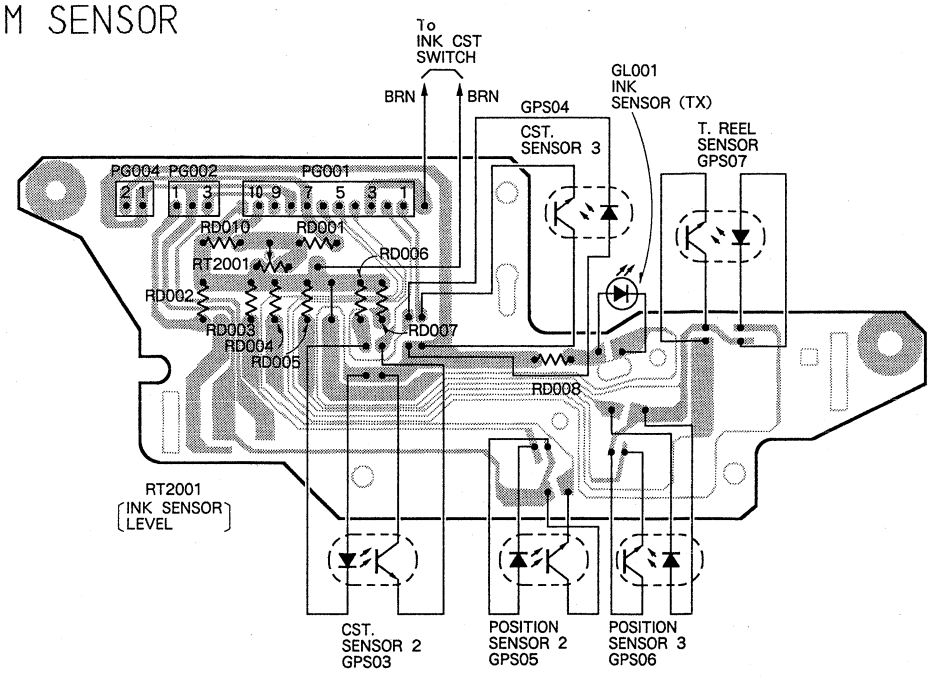
**PAPER SENSOR·2 P.C.B**

## TRAY SWITCH


PG005
8
7
GRY
VLT
To S(MAIN) PG105
SWP02
OFF ◀━━▶ ON

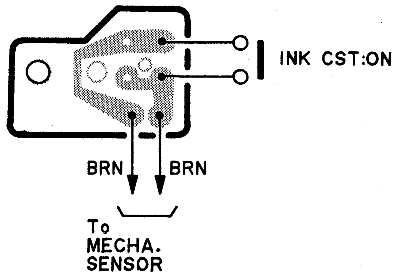
**TRAY SWITCH P.C.B**

## MECHANISM SENSOR


To INK CST SWITCH
BRN
BRN
GPS04 CST. SENSOR 3
GL001 INK SENSOR (TX)
T. REEL SENSOR GPS07
PG004
PG002
PG001
2 1
1 3
10 9 7 5 3 1
RD010
RD001
RD006
RT2001
RD002
RD003
RD004
RD005
RD007
RD008
RT2001 (INK SENSOR LEVEL)
CST. SENSOR 2 GPS03
POSITION SENSOR 2 GPS05
POSITION SENSOR 3 GPS06

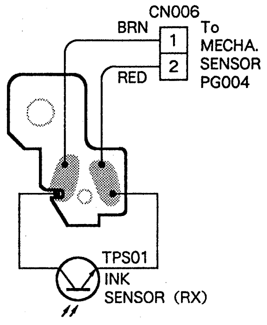
**MECHANISM SENSOR P. C. B**

## INK CASSETTE SENSOR


INK CST:ON
BRN
BRN
To MECHA. SENSOR

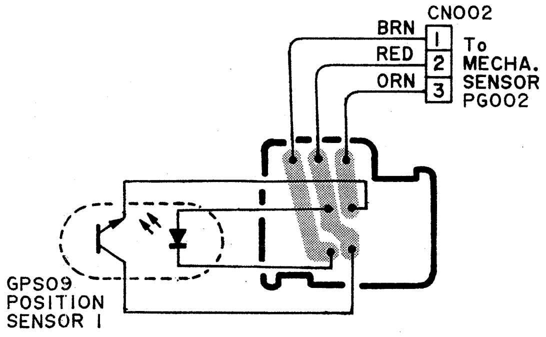
**INK CASSETTE SWITCH P.C.B**

## INK SENSOR (RX)


CN006
BRN
RED
1
2
To MECHA. SENSOR PG004
TPS01 INK SENSOR (RX)

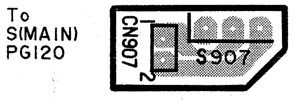
**INK SENSOR (RX) P. C. B**

## POSITION SENSOR1


CN002
BRN
RED
ORN
1
2
3
To MECHA. SENSOR PG002
GPS09 POSITION SENSOR 1

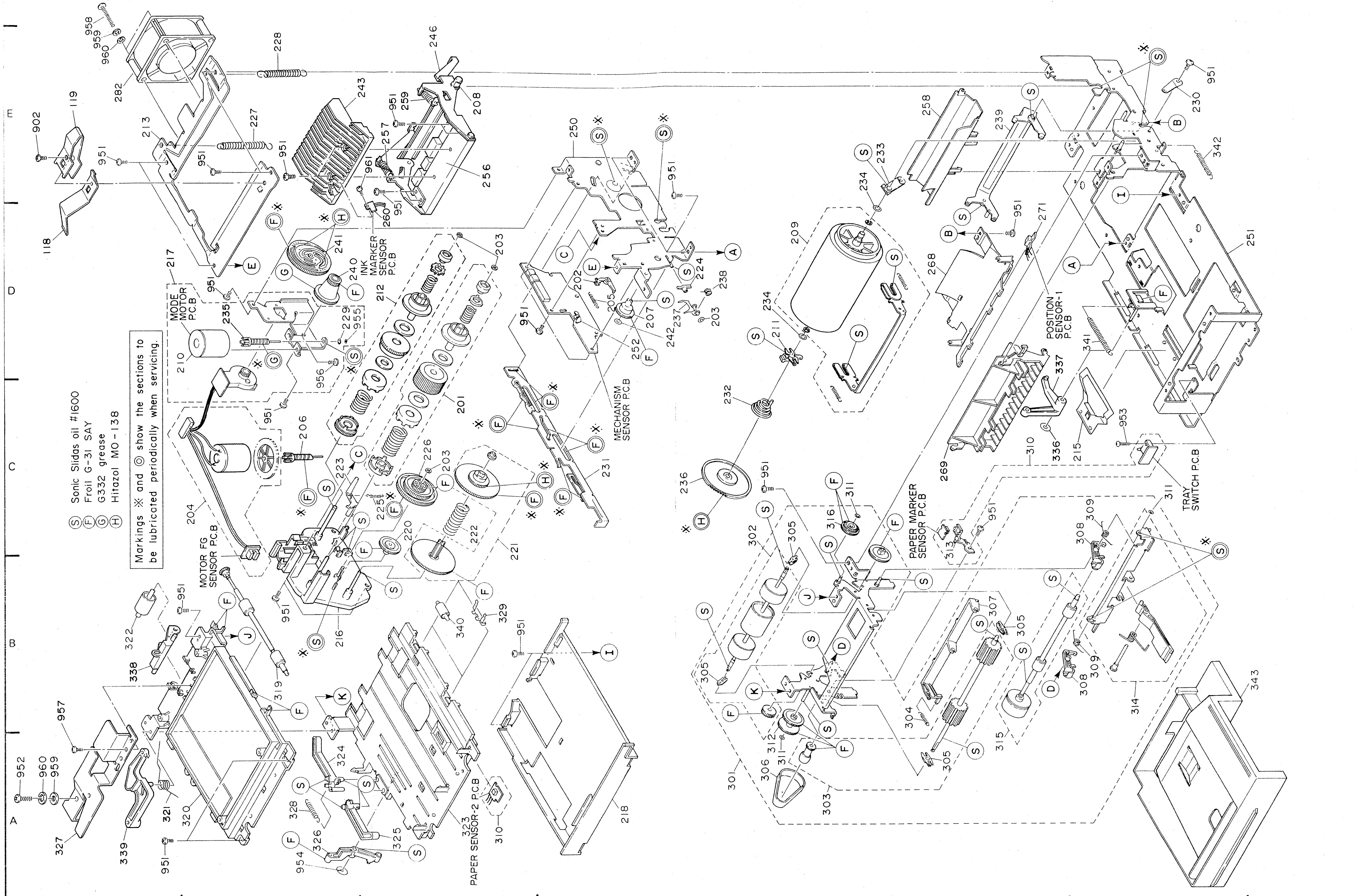
**POSITION SENSOR·1 P.C.B**

## DS (DOOR SWITCH)


To S(MAIN) PG120
CN907
2
S907

**DS(DOOR SWITCH) P.C.B**

# PRINT MECHANISM SECTION


Ⓢ Sonic Slidas oil #1600
Ⓕ Froil G-31 SAY
Ⓖ G332 grease
Ⓗ Hitazol MO-138
Markings ※ and ◎ show the sections to be lubricated periodically when servicing.
MODE MOTOR P.C.B
MOTOR FG SENSOR P.C.B
INK MARKER SENSOR P.C.B
MECHANISM SENSOR P.C.B
POSITION SENSOR-1 P.C.B
PAPER MARKER SENSOR P.C.B
TRAY SWITCH P.C.B
PAPER SENSOR-2 P.C.B
118
119
201
202
203
204
205
206
207
208
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210
211
212
213
215
216
217
218
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243
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251
252
256
257
258
259
260
268
269
271
282
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
319
320
321
322
323
324
325
326
327
328
329
336
337
338
339
340
341
342
343
902
951
952
953
954
955
956
957
958
959
960
961
A
B
C
D
E
F
G
H
I
J
K
S
1
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3
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5
6
7
8

## CHAPTER 7

# REPLACEMENT PARTS LIST

## 1. ELECTRICAL PARTS LIST

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| **CAPACITORS** | | | C321 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| | | | C322 | 0207458 | ELECTROLYTIC 10UF 25V |
| CT701 | 5058576 | CAPACTOR TRIMMER | C323 | 0800122 | ELECTROLYTIC 10UF 16V |
| C101 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C324 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C102 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C325 | 0800118 | ELECTROLYTIC 4.7UF 35V |
| C103 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C326 | 0800109 | ELECTROLYTIC 1.0UF 50V |
| C104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C327 | 0800122 | ELECTROLYTIC 10UF 16V |
| C105 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C328 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C106 | 0800048 | ELECTROLYTIC 100UF 10V | C329 | 0800041 | ELECTROLYTIC 47UF 16V |
| C107 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C330 | 0890102 | CERAMIC DISC 0.022UF+80−20% 50V |
| C108 | 0800032 | ELECTROLYTIC 33UF 16V | C331 | 0800032 | ELECTROLYTIC 33UF 16V |
| C109 | 0800015 | ELECTROLYTIC 10UF 16V | C332 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C110 | 0800049 | ELECTROLYTIC 100UF 16V | C333 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C334 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C335 | 0254371 | ELECTROLYTIC 0.47UF 35V |
| C113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C336 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C114 | 0890064 | CERAMIC DISC 18PF+−5% 50V | C339 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C115 | 0890064 | CERAMIC DISC 18PF+−5% 50V | C340 | 0800048 | ELECTROLYTIC 100UF 10V |
| C116 | 0800003 | ELECTROLYTIC 1UF 50V | C341 | 0800022 | ELECTROLYTIC 22UF 10V |
| C117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C342 | 0800117 | ELECTROLYTIC 4.7UF 25V |
| C118 | 0800049 | ELECTROLYTIC 100UF 16V | C343 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C119 | 0800151 | ELECTROLYTIC 220UF 6.3V | C344 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C120 | 0800109 | ELECTROLYTIC 1.0UF 50V | C345 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| ⚠C121 | 0880015 | POLYESTER FILM 0.068UF+−10% 50V | C346 | 0207163 | TANTALUM 1.0UF+−10% 35V |
| C122 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V | C347 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C123 | 0800051 | ELECTROLYTIC 100UF 25V | C348 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C124 | 0800107 | ELECTROLYTIC 0.47UF 50V | C349 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C125 | 0800023 | ELECTROLYITC 22UF 16V | C350 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C126 | 0800049 | ELECTROLYTIC 100UF 16V | C351 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C127 | 0880013 | POLYESTER FILM 0.033UF+−10% 50V | C352 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C128 | 0800049 | ELECTROLYTIC 100UF 16V | C353 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C129 | 0800015 | ELECTROLYTIC 10UF 16V | C354 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C130 | 0800051 | ELECTROLYTIC 100UF 25V | C355 | 0800058 | ELECTROLYTIC 220UF 16V |
| C131 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C356 | 0800058 | ELECTROLYTIC 220UF 16V |
| C132 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C357 | 0800058 | ELECTROLYTIC 220UF 16V |
| C133 | 0207458 | ELECTROLYTIC 10UF 25V | C358 | 0800122 | ELECTROLYTIC 10UF 16V |
| C134 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C359 | 0800122 | ELECTROLYTIC 10UF 16V |
| C135 | 0800057 | ELECTROLYTIC 220UF 10V | C360 | 0800122 | ELECTROLYTIC 10UF 16V |
| C136 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C361 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C137 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C362 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C138 | 0890065 | CERAMIC DISC 22PF+−5% 50V | C363 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C139 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V | C364 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C140 | 0800041 | ELECTROLYTIC 47UF 16V | C365 | 0800022 | ELECTROLYTIC 22UF 10V |
| C301 | 0800031 | ELECTROLYTIC 33UF 10V | C366 | 0800022 | ELECTROLYTIC 22UF 10V |
| C302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C367 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C303 | 0800057 | ELECTROLYTIC 220UF 10V | C368 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C304 | 0800057 | ELECTROLYTIC 220UF 10V | C369 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C305 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C370 | 0800023 | ELECTROLYITC 22UF 16V |
| C306 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C371 | 0800023 | ELECTROLYITC 22UF 16V |
| C307 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C372 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C308 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C373 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C309 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C374 | 0800023 | ELECTROLYITC 22UF 16V |
| C310 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C375 | 0800023 | ELECTROLYITC 22UF 16V |
| C311 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C376 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C312 | 0209641 | CERAMIC DISC 10000PF+−10% 16V | C377 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C314 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C378 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C315 | 0800122 | ELECTROLYTIC 10UF 16V | C379 | 0800023 | ELECTROLYITC 22UF 16V |
| C317 | 0207463 | ELECTROLYTIC 100UF 10V | C380 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C319 | 0890092 | CERAMIC DISC 2200PF+−10% 50V | C381 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C320 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C383 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C384 | 0800122 | ELECTROLYTIC 10UF 16V |
| C385 | 0800022 | ELECTROLYTIC 22UF 10V |
| C386 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C387 | 0800122 | ELECTROLYTIC 10UF 16V |
| C388 | 0800022 | ELECTROLYTIC 22UF 10V |
| C389 | 0800058 | ELECTROLYTIC 220UF 16V |
| C390 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C391 | 0880016 | POLYESTER FILM 0.1UF+−10% 50V |
| C392 | 0800041 | ELECTROLYTIC 47UF 16V |
| C393 | 0204274 | POLYESTER FILM 4700PF+−5% 100V |
| C394 | 0880005 | POLYESTER FILM 2200PF+−10% 50V |
| C395 | 0800128 | ELECTROLYTIC 22UF 16V |
| C396 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C397 | 0800122 | ELECTROLYTIC 10UF 16V |
| C398 | 0880011 | POLYESTER FILM 0.015UF+−10% 50V |
| C399 | 0800066 | ELECTROLYTIC 330UF 16V |
| C400 | 0880014 | POLYESTER FILM 0.047UF+−10% 50V |
| C401 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C402 | 0880006 | POLYESTER FILM 3300PF+−10% 50V |
| C403 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C404 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C405 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C406 | 0204277 | POLYESTER FILM 1500PF+−5% 100V |
| C407 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C408 | 0204272 | POLYESTER FILM 3300PF+−5% 100V |
| C409 | 0800022 | ELECTROLYTIC 22UF 10V |
| C410 | 0800048 | ELECTROLYTIC 100UF 10V |
| C411 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C412 | 0800039 | ELECTROLYTIC 47UF 10V |
| C413 | 0800039 | ELECTROLYTIC 47UF 10V |
| C414 | 0800022 | ELECTROLYTIC 22UF 10V |
| C415 | 0800122 | ELECTROLYTIC 10UF 16V |
| C416 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C417 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C418 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C419 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C420 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C421 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C422 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C423 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C424 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C425 | 0890077 | CERAMIC DISC 180PF+−10% 50V |
| C426 | 0800057 | ELECTROLYTIC 220UF 10V |
| C427 | 0800057 | ELECTROLYTIC 220UF 10V |
| C428 | 0800057 | ELECTROLYTIC 220UF 10V |
| C429 | 0800022 | ELECTROLYTIC 22UF 10V |
| C430 | 0800122 | ELECTROLYTIC 10UF 16V |
| C431 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C440 | 0800023 | ELECTROLYITC 22UF 16V |
| C441 | 0207406 | ELECTROLYTIC 10UF 10V |
| C442 | 0207406 | ELECTROLYTIC 10UF 10V |
| C443 | 0207406 | ELECTROLYTIC 10UF 10V |
| C444 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C445 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C446 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C447 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C448 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C449 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C450 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C451 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C452 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C453 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C454 | 0800122 | ELECTROLYTIC 10UF 16V |
| C701 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C702 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C703 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C704 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C705 | 0806163 | ELECTROLYTIC 33UF 10V |
| C706 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C707 | 0806163 | ELECTROLYTIC 33UF 10V |
| C708 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C709 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C710 | 0806163 | ELECTROLYTIC 33UF 10V |
| C711 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C712 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C713 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C714 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C715 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C716 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C717 | 0806163 | ELECTROLYTIC 33UF 10V |
| C718 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C719 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C720 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C721 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C722 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C723 | 0806163 | ELECTROLYTIC 33UF 10V |
| C724 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C725 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C729 | 0806153 | ELECTROLYTIC 10UF 16V |
| C730 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C731 | 0806163 | ELECTROLYTIC 33UF 10V |
| C732 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C733 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C734 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C735 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C736 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C737 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C738 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C739 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C758 | 0806148 | ELECTROLYTIC 3.3UF 50V |
| C759 | 0806148 | ELECTROLYTIC 3.3UF 50V |
| C760 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C761 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C762 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C763 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C764 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C765 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C766 | 0806174 | ELECTROLYTIC 100UF 6.3V |
| C767 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C768 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C769 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C770 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C771 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C778 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C779 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C780 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C781 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C782 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C783 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C784 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C785 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C786 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| C787 | 0893008 | CERAMIC CHIP 0.1UF +−10% 16V |
| | | **RESISTORS** |
| C1101 | 0800183 | ELECTROLYTIC 33UF 10V |
| C1102 | 0800175 | ELECTROLYTIC 1.0UF 50V |
| C1103 | 0800178 | ELECTROLYTIC 4.7UF 35V |
| C1104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1105 | 0800175 | ELECTROLYTIC 1.0UF 50V |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| C1106 | 0800175 | ELECTROLYTIC 1.0UF 50V | R106 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| C1107 | 0800175 | ELECTROLYTIC 1.0UF 50V | R107 | 0101759 | METAL FILM 2.2KOHM+−1% 1/8W |
| C1108 | 0207406 | ELECTROLYTIC 10UF 10V | R108 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W |
| C1109 | 0800185 | ELECTROLYTIC 47UF 6.3V | R109 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| C1110 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R110 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R111 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R112 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R113 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1114 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R114 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| C1115 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R115 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| C1116 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R116 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| C1117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R117 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W |
| C1118 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R118 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| C1119 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R119 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| C1120 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R120 | 0700031 | CARBON FILM 180OHM+−5% 1/8W |
| C1121 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R121 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1122 | 0800153 | ELECTROLYTIC 470UF 6.3V | R122 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1123 | 0800153 | ELECTROLYTIC 470UF 6.3V | R123 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1124 | 0800153 | ELECTROLYTIC 470UF 6.3V | R124 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| C1125 | 0800153 | ELECTROLYTIC 470UF 6.3V | R125 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| C1127 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R126 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| C1128 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R127 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| C1129 | 0207406 | ELECTROLYTIC 10UF 10V | R128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| C1130 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R129 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| C1131 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R130 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| C1132 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R131 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| C1133 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R132 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| C1134 | 0800186 | ELECTROLYTIC 47UF 16V | R133 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| C1135 | 0800152 | ELECTROLYTIC 220UF 10V | R134 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| C1136 | 0800151 | ELECTROLYTIC 220UF 6.3V | R135 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| C1137 | 0800151 | ELECTROLYTIC 220UF 6.3V | R136 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| C1138 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R137 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| C1139 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R138 | 0700028 | CARBON FILM 120OHM+−5% 1/8W |
| C1140 | 0207406 | ELECTROLYTIC 10UF 10V | R139 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| C1201 | 0800197 | ELECTROLYTIC 220UF 16V | R140 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| C1202 | 0800192 | ELECTROLYTIC 100UF 16V | R141 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| C1203 | 0800192 | ELECTROLYTIC 100UF 16V | R142 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| C1204 | 0800192 | ELECTROLYTIC 100UF 16V | R143 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| C1205 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R144 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| C1206 | 0800201 | ELECTROLYTIC 33UF 16V | R145 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| C1207 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R146 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| C1208 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R147 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| C1209 | 0800201 | ELECTROLYTIC 33UF 16V | R148 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| C1213 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R149 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| C1214 | 0800201 | ELECTROLYTIC 33UF 16V | R150 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| C1215 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R151 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| C1216 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | R152 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| C1217 | 0800201 | ELECTROLYTIC 33UF 16V | R153 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| RF101 | 0170472 | FUSE RESISTOR 3.3OHM+−5% 1/4W | R154 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| RF102 | 0170471 | FUSE RESISTOR 2.2OHM+−5% 1/4W | R155 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| RF103 | 0170471 | FUSE RESISTOR 2.2OHM+−5% 1/4W | R156 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| RT101 | 5007444 | SEMI VARIABLE 1KOHM | R157 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| RT301 | 5007443 | SEMI VARIABLE 470OHM | R158 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| RT302 | 5007442 | RESISTOR SEMI VARIABLE 220OHM | R159 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| RT303 | 5007442 | RESISTOR SEMI VARIABLE 220OHM | R160 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| RT304 | 5007446 | SEMI VARIABLE 4.7KOHM | R161 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| RT305 | 5007446 | SEMI VARIABLE 4.7KOHM | R162 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| RT306 | 5007444 | SEMI VARIABLE 1KOHM | R163 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| RT307 | 5007445 | SEMI VARIABLE 2.2KOHM | R164 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| RT308 | 5007445 | SEMI VARIABLE 2.2KOHM | R165 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R101 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W | R166 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R102 | 0101756 | RESISTOR 1.0KOHM+−1% 1/8W | R167 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R103 | 0101763 | RESISTOR 4.7KOHM+−1% 1/8W | R168 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R104 | 0700071 | CARBON FILM 180KOHM+−5% 1/8W | R169 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R105 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R170 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R171 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R172 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R309 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R173 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R310 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R174 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R311 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R175 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R312 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R176 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R322 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R177 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R324 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R178 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R325 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R180 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R329 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R181 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R330 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R183 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R332 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R184 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R333 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R186 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R334 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R187 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R335 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R188 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R336 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R189 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R337 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R190 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R338 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R191 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R339 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R194 | 0700034 | CARBON FILM 330OHM+−5% 1/8W | R340 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R195 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R341 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R196 | 0700034 | CARBON FILM 330OHM+−5% 1/8W | R342 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R197 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R343 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R198 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R344 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R199 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R345 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R200 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R347 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W |
| R201 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R348 | 0101765 | CHIP RESISTOR 10KOHM+−1% 1/8W |
| R202 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R349 | 0101759 | METAL FILM 2.2KOHM+−1% 1/8W |
| R203 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R350 | 0700076 | CARBON FILM 470KOHM+−5% 1/8W |
| R204 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R353 | 0700075 | CARBON FILM 390KOHM+−5% 1/8W |
| R205 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R354 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W |
| R207 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R355 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R208 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R356 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R209 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R357 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R210 | 0101765 | CHIP RESISTOR 10KOHM+−1% 1/8W | R358 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R211 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R359 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R212 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R360 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R213 | 0700073 | CARBON FILM 270KOHM+−5% 1/8W | R361 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R214 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R362 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R215 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R367 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R216 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R368 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R217 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R369 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R218 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R370 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R219 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R371 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R220 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R372 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R246 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R373 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R247 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R374 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R253 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R375 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R254 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R376 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R255 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R377 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R256 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R378 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R257 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R379 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R258 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R380 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R259 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R381 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R260 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R382 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R261 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R383 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R262 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R384 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R263 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R385 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R264 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R386 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R266 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R387 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R301 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R388 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R302 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R389 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R303 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W | R390 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R304 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R391 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R305 | 0700039 | CARBON FILM 820OHM+−5% 1/8W | R392 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R307 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R393 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R394 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R461 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R395 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R462 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R396 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R463 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R397 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R464 | 0700029 | CARBON FILM 150OHM+−5% 1/8W |
| R398 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R465 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R399 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R466 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R400 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R467 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R401 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R468 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R402 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R469 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R403 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R470 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R404 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R471 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R405 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R472 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R406 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R473 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R407 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R474 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R408 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R475 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R409 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R476 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R410 | 0700068 | CARBON FILM 120KOHM+−5% 1/8W | R477 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| R411 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R478 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R412 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R479 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R413 | 0700037 | CARBON FILM 560OHM+−5% 1/8W | R480 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R416 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W | R481 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R417 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W | R482 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R418 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W | R483 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R419 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W | R484 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R420 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W | R485 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R421 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R486 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R422 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R487 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R423 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R488 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R424 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R489 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R425 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R490 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R426 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R491 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R427 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R492 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R428 | 0700037 | CARBON FILM 560OHM+−5% 1/8W | R493 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R429 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R494 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R430 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R495 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R431 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R496 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R432 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R497 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R433 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R498 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R434 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R499 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R435 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R500 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R436 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R501 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R437 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R502 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R438 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W | R505 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R439 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W | R506 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R440 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W | R507 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R441 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W | R508 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R442 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R509 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R443 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R513 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R444 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R514 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W |
| R445 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R515 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R446 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W | R516 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R447 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R517 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R448 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R518 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R449 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R522 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R450 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W | R523 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R451 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R524 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R452 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W | R525 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R453 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R701 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R454 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R702 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R455 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R703 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R456 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R704 | 0104116 | CHIP RESISTOR 39KOHM 1/10W |
| R457 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R705 | 0104111 | METAL FILM 10KOHM+−10% 1/10W |
| R458 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R706 | 0104123 | CHIP RESISTOR 8.2KOHM+−1% 1/10W |
| R459 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R715 | 0103855 | CHIP RESISTOR 10KOHM+−5% 0.1W |
| R460 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R718 | 01038793 | CHIP RESISTOR 1MOHM+−5% 0.1W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R719 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R720 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R721 | 01038313 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R722 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R723 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R724 | 01038483 | CHIP RESISTOR 2.7KOHM+-5% 0.1W |
| R725 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R726 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R727 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R728 | 0103855 | CHIP RESISTOR 10KOHM+-5% 0.1W |
| R729 | 01038413 | CHIP RESISTOR 680 OHM+-5% 0.1W |
| R730 | 01038473 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R731 | 0103851 | CHIP RESISTOR 4.7KOHM+-5% 0.1W |
| R732 | 01038493 | CHIP RESISTOR 3.3KOHM+-5% 0.1W |
| R735 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R736 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R901 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R902 | 0700032 | CARBON FILM 220 OHM+-5% 1/8W |
| R903 | 0700032 | CARBON FILM 220 OHM+-5% 1/8W |
| R904 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R905 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R906 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R907 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R908 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R909 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| | | **SEMI-CONDUCTORS** |
| R1101 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R1102 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R1103 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1104 | 0700038 | CARBON FILM 680OHM+-5% 1/8W |
| R1105 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1106 | 1109023 | METAL FILM 75 OHM+-50% 1/8W |
| R1107 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R1108 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1109 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1110 | 1109023 | METAL FILM 75 OHM+-50% 1/8W |
| R1111 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1112 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1113 | 1109023 | METAL FILM 75 OHM+-50% 1/8W |
| R1114 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1115 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1116 | 0700032 | CARBON FILM 220 OHM+-5% 1/8W |
| R1117 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R1118 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R1119 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R1120 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1121 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1122 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1123 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1124 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1125 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1126 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R1127 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R1128 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1129 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1130 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1131 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1132 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W |
| R1133 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W |
| R1134 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W |
| R1135 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W |
| R1136 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W |
| R1137 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W |
| R1138 | 0101749 | CHIP RESISTOR 270 OHM+-1% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R1139 | 0101745 | CHIP RESISTOR 100 OHM+-1% 1/8W |
| R1140 | 0101754 | CHIP RESISTOR 560 OHM+-1% 1/8W |
| R1141 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R1142 | 0700031 | CARBON FILM 180OHM+-5% 1/8W |
| R1143 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1144 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1145 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1146 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1201 | 0101825 | CARBON FILM 220 OHM+-5% 1/4W |
| R1202 | 0101825 | CARBON FILM 220 OHM+-5% 1/4W |
| R1203 | 0101824 | CARBON FILM 180 OHM+-5% 1/4W |
| R1204 | 0101824 | CARBON FILM 180 OHM+-5% 1/4W |
| R1205 | 0101829 | CARBON FILM 470OHM+-5% 1/4W |
| R1206 | 0101821 | CARBON FILM 100OHM+-5% 1/4W |
| D101 | 5339141 | DIODE 1SS270 |
| D102 | 5339141 | DIODE 1SS270 |
| D103 | 5339141 | DIODE 1SS270 |
| D104 | 5339141 | DIODE 1SS270 |
| D105 | 5339141 | DIODE 1SS270 |
| D106 | 5339141 | DIODE 1SS270 |
| D107 | 5339141 | DIODE 1SS270 |
| D112 | 5339231 | DIODE 1SR35-100A |
| D113 | 5339231 | DIODE 1SR35-100A |
| D114 | 5339141 | DIODE 1SS270 |
| D115 | 5339141 | DIODE 1SS270 |
| D116 | 5339141 | DIODE 1SS270 |
| D117 | 5339141 | DIODE 1SS270 |
| D118 | 5339141 | DIODE 1SS270 |
| D119 | 5339141 | DIODE 1SS270 |
| D120 | 5339141 | DIODE 1SS270 |
| D121 | 5339141 | DIODE 1SS270 |
| D122 | 5339141 | DIODE 1SS270 |
| D123 | 5339141 | DIODE 1SS270 |
| D124 | 5339141 | DIODE 1SS270 |
| D125 | 5339141 | DIODE 1SS270 |
| D126 | 5339141 | DIODE 1SS270 |
| D127 | 5339141 | DIODE 1SS270 |
| D128 | 5339141 | DIODE 1SS270 |
| D130 | 5339141 | DIODE 1SS270 |
| D131 | 5339141 | DIODE 1SS270 |
| D133 | 5339141 | DIODE 1SS270 |
| D134 | 5339141 | DIODE 1SS270 |
| D135 | 5339141 | DIODE 1SS270 |
| D136 | 5339141 | DIODE 1SS270 |
| D137 | 5339141 | DIODE 1SS270 |
| D138 | 5339141 | DIODE 1SS270 |
| D139 | 5339141 | DIODE 1SS270 |
| D140 | 5339141 | DIODE 1SS270 |
| D141 | 5339141 | DIODE 1SS270 |
| D142 | 5339141 | DIODE 1SS270 |
| D143 | 5339141 | DIODE 1SS270 |
| D144 | 5339141 | DIODE 1SS270 |
| D145 | 5339141 | DIODE 1SS270 |
| D146 | 5339141 | DIODE 1SS270 |
| D147 | 5339141 | DIODE 1SS270 |
| D210 | 5339141 | DIODE 1SS270 |
| D211 | 5339141 | DIODE 1SS270 |
| D213 | 5339141 | DIODE 1SS270 |
| D214 | 5339141 | DIODE 1SS270 |
| D215 | 5339141 | DIODE 1SS270 |
| D301 | 5339141 | DIODE 1SS270 |
| D302 | 5339141 | DIODE 1SS270 |
| D303 | 5339141 | DIODE 1SS270 |
| D304 | 5339141 | DIODE 1SS270 |
| D702 | 5328321 | DIODE MA151K (MH) |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D703 | 5328321 | DIODE MA151K (MH) |
| D705 | 5328321 | DIODE MA151K (MH) |
| D706 | 5328321 | DIODE MA151K (MH) |
| D707 | 5328321 | DIODE MA151K (MH) |
| D901 | 5339141 | DIODE 1SS270 |
| D902 | 5339141 | DIODE 1SS270 |
| D903 | 5339141 | DIODE 1SS270 |
| D904 | 5339141 | DIODE 1SS270 |
| D905 | 5339141 | DIODE 1SS270 |
| D906 | 5339141 | DIODE 1SS270 |
| D907 | 5339141 | DIODE 1SS270 |
| D908 | 5339141 | DIODE 1SS270 |
| D909 | 5339141 | DIODE 1SS270 |
| D910 | 5339141 | DIODE 1SS270 |
| D1101 | 5339141 | DIODE 1SS270 |
| D1102 | 5339141 | DIODE 1SS270 |
| D1103 | 5339141 | DIODE 1SS270 |
| D1104 | 5339141 | DIODE 1SS270 |
| D1105 | 5339141 | DIODE 1SS270 |
| D1106 | 5339141 | DIODE 1SS270 |
| D1107 | 5339141 | DIODE 1SS270 |
| D1201 | 5339141 | DIODE 1SS270 |
| IC101 | 1359991 | IC MB635120 |
| IC102 | 1342288 | IC M50558−112SP |
| IC103 | 1367401 | IC BR9021 |
| IC104 | 5301591 | IC SN74HC32N |
| IC105 | 5369911 | IC M54548L |
| IC106 | 5369171 | IC M54543L |
| IC107 | 5365673 | IC NJM2901N |
| IC108 | 5365673 | IC NJM2901N |
| IC109 | 1345791 | IC HA17807 |
| IC301 | 1360271 | IC HA118104 |
| IC302 | 5300781 | IC M51489L |
| IC303 | 1345841 | IC NJM2233BL |
| IC304 | 1340731 | IC V7021 |
| IC305 | 1360271 | IC HA118104 |
| IC306 | 1345921 | IC UPD6336C |
| IC307 | 1362254 | IC LM2904L |
| IC308 | 1361771 | IC M5216L |
| IC309 | 1362254 | IC LM2904L |
| IC310 | 1362254 | IC LM2904L |
| IC311 | 1345841 | IC NJM2233BL |
| IC312 | 1341661 | IC LM393 |
| IC313 | 5301411 | IC NJU74HC04D |
| IC314 | 1341661 | IC LM393 |
| IC315 | 5367091 | IC HA11423 |
| IC316 | 5301641 | IC UPD74HC221AC |
| IC317 | 1340681 | IC V7040 |
| IC318 | 1359451 | IC CXA1211M |
| IC319 | 1359451 | IC CXA1211M |
| IC701 | 1354352 | IC CXD1175AM |
| IC702 | 1354352 | IC CXD1175AM |
| IC703 | 1354352 | IC CXD1175AM |
| IC704 | 1340741 | IC CXD1178Q |
| IC706 | 1365901 | IC HD6473378F10VY−MXS01A |
| IC707 | 1365771 | IC MB635127 |
| IC708 | 1343541 | IC SN74S124N |
| IC709 | 1359153 | IC HM514800LJP−8Z |
| IC710 | 1359153 | IC HM514800LJP−8Z |
| IC711 | 1359153 | IC HM514800LJP−8Z |
| IC721 | 5366542 | IC PST520C2 |
| IC722 | 5364601 | IC M5278L05 |
| IC723 | 1365841 | IC HD74HC74FP |
| IC1101 | 1360271 | IC HA118104 |
| IC1102 | 1360271 | IC HA118104 |
| IC1103 | 1360271 | IC HA118104 |
| IC1201 | 1362352 | IC NJM7809FA |
| IC1202 | 1360351 | IC NJM7805FA |
| IC1203 | 1360351 | IC NJM7805FA |
| IC1204 | 1360351 | IC NJM7805FA |
| LD101 | 5381668 | LED SLH34MT3 |
| LD102 | 5381668 | LED SLH34MT3 |
| LD103 | 5381668 | LED SLH34MT3 |
| LD104 | 5381668 | LED SLH34MT3 |
| LD901 | 5381667 | LED SLH34MT3 |
| LD902 | 5381001 | LED SLR−34URC5 |
| LD903 | 5381001 | LED SLR−34URC5 |
| Q101 | 1320004 | TRANSISTOR 2SA854SQR |
| Q102 | 1320004 | TRANSISTOR 2SA854SQR |
| Q103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q105 | 5327076 | TRANSISTOR XDA144ES |
| Q106 | 5327071 | TRANSISTOR DTC124ES |
| Q107 | 5327252 | TRANSISTOR DTC114YS |
| Q108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q110 | 5324631 | TRANSISTOR 2SA1390C |
| Q111 | 5324631 | TRANSISTOR 2SA1390C |
| Q112 | 5324631 | TRANSISTOR 2SA1390C |
| Q113 | 5324631 | TRANSISTOR 2SA1390C |
| Q114 | 5327071 | TRANSISTOR DTC124ES |
| Q115 | 5327071 | TRANSISTOR DTC124ES |
| Q116 | 5327071 | TRANSISTOR DTC124ES |
| Q119 | 5327072 | TRANSISTER DTA124ES |
| Q120 | 5327071 | TRANSISTOR DTC124ES |
| Q121 | 5327072 | TRANSISTER DTA124ES |
| Q122 | 5327071 | TRANSISTOR DTC124ES |
| Q123 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q124 | 5327071 | TRANSISTOR DTC124ES |
| Q125 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q126 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q127 | 5324111 | TRASISTOR 2SD1209 |
| Q128 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q306 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q309 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q310 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q311 | 5327071 | TRANSISTOR DTC124ES |
| Q312 | 1320004 | TRANSISTOR 2SA854SQR |
| Q313 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q314 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q320 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q321 | 1320004 | TRANSISTOR 2SA854SQR |
| Q322 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q323 | 1320004 | TRANSISTOR 2SA854SQR |
| Q324 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q325 | 1320004 | TRANSISTOR 2SA854SQR |
| Q326 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q327 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q328 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q329 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q330 | 1320004 | TRANSISTOR 2SA854SQR |
| Q331 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q332 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q333 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q334 | 1320004 | TRANSISTOR 2SA854SQR |
| Q335 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q336 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q337 | 5327061 | TRANSISTOR 2SC1740S−ST |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q338 | 1320004 | TRANSISTOR 2SA854SQR |
| Q339 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q340 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q341 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q342 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q343 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q344 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q345 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q346 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q347 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q348 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q349 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q350 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q351 | 1320004 | TRANSISTOR 2SA854SQR |
| Q352 | 1320004 | TRANSISTOR 2SA854SQR |
| Q353 | 1320004 | TRANSISTOR 2SA854SQR |
| Q354 | 1320004 | TRANSISTOR 2SA854SQR |
| Q358 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q359 | 1320004 | TRANSISTOR 2SA854SQR |
| Q701 | 5328962 | TRANSISTOR 2SA1037K |
| Q702 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q703 | 5328962 | TRANSISTOR 2SA1037K |
| Q704 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q901 | 5327071 | TRANSISTOR DTC124ES |
| Q902 | 5327071 | TRANSISTOR DTC124ES |
| Q903 | 5327071 | TRANSISTOR DTC124ES |
| Q1101 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1102 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1105 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1106 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1107 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1110 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1201 | 1321321 | TRANSISTOR 2SB1187(E/F) |
| Q1202 | 5327021 | TRANSISTOR 2SA844CD |
| Q1203 | 5327071 | TRANSISTOR DTC124ES |
| ZD101 | 5339251 | DIODE HZS2−C3 |
| ZD103 | 5339265 | DIODE HZS9−B3 |
| ZD104 | 5339251 | DIODE HZS2−C3 |
| ZD301 | 5339481 | DIODE HZS2B3 |
| ZD304 | 5339257 | DIODE HZS4 |
| ZD306 | 5339291 | DIODE HZS3B1 |
|  |  | **COILS** |
| L101 | 0770057 | CHOKE COIL 100UH+−5% |
| L102 | 0770046 | CHOKE COIL 15UH+−5% |
| L302 | 0770057 | CHOKE COIL 100UH+−5% |
| L303 | 0770066 | CHOKE COIL 470UH+−5% |
| L304 | 0770057 | CHOKE COIL 100UH+−5% |
| L305 | 0770044 | CHOKE COIL 10UH+−5% |
| L306 | 0770057 | CHOKE COIL 100UH+−5% |
| L307 | 0770057 | CHOKE COIL 100UH+−5% |
| L309 | 0770057 | CHOKE COIL 100UH+−5% |
| L701 | 0773001 | CHOCE COIL 10UH+−10% |
| L702 | 0773001 | CHOCE COIL 10UH+−10% |
| L703 | 0773001 | CHOCE COIL 10UH+−10% |
| L704 | 0773001 | CHOCE COIL 10UH+−10% |
| L705 | 0773001 | CHOCE COIL 10UH+−10% |
| L1101 | 0770044 | CHOKE COIL 10UH+−5% |
| L1102 | 0770044 | CHOKE COIL 10UH+−5% |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
|  |  | **CRYSTALS** |
| XL301 | 5780651 | 3.58MHZ XTAL |
| XL701 | 5778431 | CRYSTAL |
| XL702 | 5778842 | OSCILLATOR |
|  |  | **MISCELLANEOUS** |
| BC101 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC102 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC103 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC104 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC105 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC106 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC107 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC108 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC109 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC110 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC111 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC112 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC113 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC114 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC115 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC116 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC117 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC118 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC119 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC303 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC304 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC701 | 0235363 | LINE FILTER |
| BC1102 | 0235362 | LINE FILTER |
| BC1103 | 0235362 | LINE FILTER |
| BC1104 | 0235362 | LINE FILTER |
| BC1105 | 0235362 | LINE FILTER |
| BC1106 | 0235362 | LINE FILTER |
| BC1107 | 0235362 | LINE FILTER |
| BC1108 | 0235362 | LINE FILTER |
| BC1109 | 0235362 | LINE FILTER |
| BC1110 | 0235362 | LINE FILTER |
| CP303 | 5164893 | FILTER,BAND PASS |
| CP307 | 5163463 | LOW PASS FILTER |
| CP308 | 5163463 | LOW PASS FILTER |
| CP309 | 5163463 | LOW PASS FILTER |
| DL303 | 5786411 | DELAY LINE |
| DL304 | 5165214 | DELAY LINE |
| DL306 | 5165341 | DELAY LINE |
| DL307 | 5165213 | DELAY LINE |
| DL308 | 5163483 | DELAY LINE |
| J101 | 5695641 | PLUG |
| J301 | 5655091 | PLUG |
| J302 | 5655091 | PLUG |
| J1101 | 5699341 | PLUG |
| J1102 | 5699341 | PLUG |
| J1103 | 5699341 | PLUG |
| J1104 | 5699341 | PLUG |
| J1105 | 5699341 | PLUG |
| J1106 | 5699341 | PLUG |
| J1107 | 5699341 | PLUG |
| J1108 | 5699341 | PLUG |
| J1109 | 5699341 | PLUG |
| J1110 | 5699341 | PLUG |
| S101 | 5635113 | SWITCH |
| S102 | 5635113 | SWITCH |
| S103 | 5635113 | SWITCH |
| S104 | 5635113 | SWITCH |
| S105 | 5635113 | SWITCH |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| S106 | 5635113 | SWITCH |
| S901 | 5634921 | SWITCH |
| S902 | 5635061 | SWITCH |
| S903 | 5635061 | SWITCH |
| S904 | 5635061 | SWITCH |
| S905 | 5635061 | SWITCH |
| S906 | 5635061 | SWITCH |
| S907 | 5635061 | SWITCH |
| S907 | 5635231 | SWITCH |
| S908 | 5635061 | SWITCH |
| S1101 | 5621784 | SWITCH |
| S1102 | 5621463 | SWITCH |
| S1103 | 5610931 | SWITCH |

## 2. MECHANICAL PARTS LIST

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **FOR FINAL ASSEMBLY** |
| 101 | 6006718 | COVER,TOP |
| 102 | 4720188 | PANEL,FRONT |
| 103 | 6487315 | COVER.INK |
| 104 | 4721392 | COVER,CONTROL |
| 105 | 6484653 | CAP |
| 106 | 4890482 | BRACKET |
| 107 | 6009441 | COVER,REAR(L) |
| 108 | 6009453 | COVER,REAR(R) |
| 112 | 6811721 | BRACKET |
| 114 | 6811741 | BRACKET |
| 115 | 6809961 | BRACKET,PWB(A) |
| 116 | 6809982 | HOLDER,CBA |
| 117 | 6813761 | BRACKET |
| 118 | 6528221 | PLATE,EARTH |
| 119 | 4899941 | BRACKET |
| 120 | 6338271 | SHAFT |
| 121 | 5273855 | SWITCHING REGULATOR |
| 126 | 6552751 | SPRING |
| 127 | 4520651 | HOLDER |
| 128 | 4520652 | HOLDER |
| 129 | 7230901 | E RING FOR SPRING MOUNTING |
| 130 | 6072702 | KNOB |
| 131 | 6324432 | PREVENTION SPRING |
| 132 | 6813891 | DAMPER |
| 134 | 6438001 | RUBBER LEG |
| 136 | 6006721 | COVER,BOTTOM |
| 137 | 6808681 | FELT,LEG |
| 138 | 4890391 | BRACKET |
| 139 | 6813812 | LEVER |
| 140 | 6813821 | LEVER |
| 141 | 7709091 | WASHER |
| 142 | 6303471 | SPRING |
| 201 | 6415936 | REEL TABLE(T) |
| 202 | 6822551 | ARM |
| 203 | 7778859 | POLYSLIDER WASHER |
| 204 | 4583011 | MOTOR |
| 205 | 6556461 | SPRING |
| 206 | 6347961 | WORM |
| 207 | 6440112 | GEAR |
| 208 | 6806721 | BASE |
| 209 | 6564334 | DRUM |
| 210 | 5579341 | MOTOR,LOADING |
| 211 | 4512211 | HOLDER,SHAFT |
| 212 | 6416482 | REEL TABLE(S) |
| 213 | 7442062 | BRACKET |
| 215 | 6527601 | SPRING |
| 217 | 7467223 | MOTOR,LOADING |
| 218 | 6807022 | GUIDE |
| 220 | 6437381 | GEAR |
| 222 | 6523452 | SPRING |
| 224 | 6820271 | ARM |
| 225 | 6543131 | SPRING |
| 226 | 6437411 | GEAR |
| 227 | 6556482 | SPRING |
| 228 | 6556481 | SPRING |
| 229 | 7786112 | POL SLIDER WASHER |
| 230 | 7474841 | PLATE |
| 231 | 4583081 | SLIDER |
| 232 | 6523915 | SPRING |
| 233 | 4512201 | HOLDER,SHAFT |
| 234 | 7786113 | POLYESTER SLIDER WASHER |
| 235 | 6437451 | GEAR |
| 236 | 6347983 | GEAR |
| 237 | 7469181 | PLATE |
| 238 | 6552311 | SPRING |
| 239 | 7467202 | ARM |
| 240 | 6437401 | GEAR |
| 241 | 6347971 | GEAR |
| 242 | 7789311 | WASHER |
| 243 | 6378321 | PLATE |
| 246 | 7473042 | ARM |
| 250 | 7138886 | CHASSIS(L) |
| 251 | 7139231 | SHASSIS |
| 252 | 6807051 | HOLDER |
| 256 | 5443531 | THERMAL HEAD |
| 257 | 6558163 | SPRING |
| 258 | 6806841 | GUIDE |
| 259 | 6558162 | SPRING |
| 260 | 1620301 | PWB ASSY INK SENSOR(IS) |
| 268 | 6807002 | GUIDE |
| 282 | 1710031 | FAN |
| 269 | 6807013 | GUIDE |
| 271 | 1605962 | PWB ASSY PAPER SENSOR 1 |
| 301 | 7132707 | POPER SUPPLY MECHANISM ASSY |
| 302 | 6564274 | ROLLER |
| 303 | 6564292 | ROLLER |
| 304 | 6300081 | SPRING |
| 305 | 4512121 | HOLDER |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 306 | 6357692 | BELT |
| 309 | 6552041 | SPRING |
| 310 | 1605976 | PWB ASSY SWITCH／PAPER |
| 312 | 6440122 | GEAR |
| 313 | 6820432 | HOLDER |
| 315 | 6564361 | ROLLER |
| 316 | 6437361 | GEAR |
| 319 | 6564341 | ROLLER |
| 320 | 4583041 | ARM |
| 321 | 6529991 | SPRING |
| 322 | 6424441 | ROLLER |
| 323 | 6806872 | TRAY |
| 324 | 6806761 | ARM |
| 325 | 6806771 | ARM |
| 326 | 6806733 | LEVER |
| 327 | 4583091 | PLATE |
| 328 | 6556491 | SPRING |
| 329 | 6527591 | SPRING |
| 335 | 1608463 | PWB ASSY DOOR SWITCH |
| 336 | 7778859 | POLYSLIDER WASHER |
| 337 | 4583061 | ARM |
| 338 | 4583051 | ARM |
| 339 | 4583071 | ARM |
| 340 | 6424451 | ROLLER |
| 341 | 6556302 | SPRING |
| 342 | 6300844 | SPRING |
| 343 | 4712961 | TRAY |
| 901 | 7784114 | SCREW (3X6) |
| 902 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 903 | 7784802 | SCREW (3X6) |
| 904 | 8691410 | SCREW |
| 905 | 7784428 | SCREW (M3) |
| 908 | 87411063 | SCREW (2X6) |
| 909 | 8744406 | BINDING SCREW – 377D X 6MM |
| 951 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 952 | 8741412 | SCREW (B3X12) |
| 953 | 8741108 | SCREW (2X8) |
| 954 | 7707531 | WASHER |
| 955 | 7774942 | E RING |
| 956 | 8741403 | BIND SCREW—3MMDX3MM |
| 957 | 8691405 | SCREW (3X5) |
| 958 | 87414303 | BIND SCREW—3MMDX30MM |
| 959 | 8812114 | WASHER – 3MMD SMALL |
| 960 | 8813114 | SPRING WASHER—3MMD |

# APPENDIX

## OPERATION

### SYSTEM CONTROL MICROPROCESSOR (HD6473378F10) PIN FUNCTIONS

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 1 | I | Lo | RES | Initializes the microprocessor when power is turned on. |
| 2 | | | XTAL | Clock pulses of microprocessor |
| 3 | | | EXTAL | |
| 4 | I | Hi | MD 1 | Mode setting (connected to 5V power supply) |
| 5 | I | Hi | MD 0 | |
| 6 | I | Lo | NMI | Connected to 5V power supply. |
| 7 | I | Lo | STBY | Connected to 5V power supply. |
| 8 | | | Vcc | 5V power supply |
| 9 | O | Hi | DM2 | Control the drum motor that feeds the ink paper. |
| 10 | O | Hi | DM1 | |
| 11 | O | Hi | DM0 | |
| 12 | | | Vss | Ground |
| 13 | O | Hi | MM 1 | Control the mode motor that switches the mechanism state. |
| 16 | O | Hi | MM 0 | |
| 14 | I | – | PS2 | Detects the drum chuck position. |
| 15 | I/O | – | P. CNT | Printer control input/output |
| 17 | O | – | CK 1 | Clock pulse for memory controlling gate array (IC807) |
| 18 | I | – | SDRQ | Strobe data request signal for head drive gate array (IC101) |
| 19 | I | – | MDRQ | Memory data request signal for head drive gate array (IC101) |
| 20 | I | – | BUSY | Signals that data is being transferred. |
| 21 | O | Lo | EN | Signal to enable transfer of data to the head drive gate array (IC101). |
| 22 | O | Lo | IFROK | Request signal from VY-300 I/F microprocessor (IC805) |
| 23 | I | – | FGIN | Drum motor speed/phase control FG input |
| 24 | O | Hi | PSNI | One-line print start signal |
| 25 | O | Hi | PLRN | One-color print signal |
| 26 | O | – | SDATA | Serial data to VY-300 I/F microprocessor (IC805) |
| 27 | O | – | IF SCK | Clock pulse to VY-300 I/F microprocessor (IC805) |
| 28 | I | – | VDN | Vertical sync input |
| 29 | | | AVcc | 5V power supply of analog circuits in microprocessor |
| 30 | I | – | TH A/D | A/D conversion input of thermal detection thermistor |
| 31 | I | – | PSI | Paper chuck position detection |
| 32 | I | Lo | IF REQ | Request input from VY-300 I/F microprocessor (IC805) |
| 33 | I | – | FRZ SW | Freeze switch input |
| 34 | I | – | IF DATA | Serial data from VY-300 I/F microprocessor (IC805) |
| 35 | I | – | EPSI | Serial data from EAROM (IC103) |
| 36 | I | – | FAFB | Field discrimination signal input |
| 37 | I | – | PS3 | Print start position detection |
| 38 | I | 0V | AVss | Ground |
| 39 | I | – | FGIN | Drum motor FG input |
| 40 | O | – | SCK | Clock pulses of character generator (IC102), EAROM (IC103) and D/A converter (IC804) |
| 41 | O | – | SO | Serial data for character generator (IC102), EAROM (IC103) and D/A converter (IC806) |
| 42 | O | – | CGADM | Chip select signal for character generator (IC806) |
| 43 | O | – | SPLH | Serial-parallel conversion latch signal of head drive gate array (IC101) |
| 44 | O | – | EACS | EAROM (IC103) chip select signal |
| 45 | O | – | SPWM | Drum speed control PWM signal |
| 46 | O | – | PPWM | Drum phase control PWM signal |
| 47 | | | Vcc | 5V power supply |
| 48 | I | – | KEY 7 | Matrix key board inputs |
| 49 | I | – | KEY 6 | |
| 50 | I | – | KEY 5 | |
| 51 | I | – | KEY 4 | |
| 52 | I | – | KEY 3 | |
| 53 | I | – | KEY 2 | |
| 54 | I | – | KEY 1 | |
| 55 | I | – | KEY 0 | |

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 56 | | | Vss | Ground |
| 57 | O | – | POWER | Power supply mode output |
| 58 | O | – | SEG c | Matrix key board and indicator drive timing pulses |
| 59 | O | – | SEG b | |
| 60 | O | – | SEG a | |
| 61 | O | – | DIG 3 | Matrix key board and indicator drive timing pulses |
| 62 | O | – | DIG 2 | |
| 63 | O | – | DIG 1 | |
| 64 | O | – | DIG 0 | |
| 65 | I/O | – | D 0 | Parallel data communicated with memory control gate array (IC807) |
| 66 | I/O | – | D 1 | |
| 67 | I/O | – | D 2 | |
| 68 | I/O | – | D 3 | |
| 69 | I/O | – | D 4 | |
| 70 | I/O | – | D 5 | |
| 71 | I/O | – | D 6 | |
| 72 | I/O | – | D 7 | |
| 73 | | | Vss | Ground |
| 74 | O | – | D/ADR | Data/address switching of memory control gate array (IC807) |
| 75 | O | – | R/W | Read/write switching of memory control gate array (IC807) |
| 76 | O | – | VWF | White frame on/off signal of head drive gate array (IC101) |
| 77 | O | – | FRZ | Freeze mode output |
| 78 | O | – | PDAI | Serial data of head drive gate array (IC101) |
| 79 | O | – | DLTH | Latch signal for serial data of head drive gate array (IC101) |
| 80 | O | – | SCKI | Clock pulses for serial data of head drive gate array (IC101) |

## MEMORY CONTROL GATE ARRAY (MB635127) PIN FUNCTIONS

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 1 | | | Vss | Ground |
| 2 | I/O | – | B D3 | B ch video data (per bit) |
| 3 | I/O | – | B D4 | |
| 4 | I/O | – | B D5 | |
| 5 | I/O | – | B D6 | |
| 6 | I/O | – | B D7 | |
| 117 | I/O | – | B D0 | |
| 118 | I/O | – | B D1 | |
| 119 | I/O | – | B D2 | |
| 7 | O | – | RAS 1 | VY-170/300 row address strobe signal |
| 8 | O | – | RAS 2 | VY-300 row address strobe signals (per frame) |
| 9 | O | – | RAS 3 | |
| 10 | O | – | RAS 4 | |
| 12 | I/O | – | G D0 | G ch video data (per bit) |
| 13 | I/O | – | G D1 | |
| 14 | I/O | – | G D2 | |
| 15 | I/O | – | G D3 | |
| 17 | I/O | – | G D4 | |
| 18 | I/O | – | G D5 | |
| 19 | I/O | – | G D6 | |
| 20 | I/O | – | G D7 | |
| 16 | | | Vdd | Connected to 5V power supply |
| 11 | | | Vss | Ground |
| 21 | | | Vss | Ground |
| 22 | O | – | WE B | Write enable signals (for each R, G and B) |
| 23 | O | – | WE G | |
| 24 | O | – | WE R | |

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 25 | O | – | RAS 1 | VY-170/300 column address strobe signal |
| 26 | O | – | RAS 2 | VY-300 column address strobe signals (per frame) |
| 27 | O | – | RAS 3 | |
| 32 | O | – | RAS 4 | |
| 31 | | | Vss | Ground |
| 28 | | | RES2 | Connected to 5V power supply. |
| 29 | | | OSC I | Generate clock pulses. |
| 30 | | | OSC O | |
| 33 | O | – | OE 1 | VY-170/300 output enable signal |
| 34 | O | – | OE 2 | VY-300 ouytput enable signals (per frame) |
| 35 | O | – | OE 3 | |
| 36 | O | – | OE 3 | |
| 37 | I/O | – | R D0 | R ch video data (per bit) |
| 38 | I/O | – | R D1 | |
| 39 | I/O | – | R D2 | |
| 40 | I/O | – | R D3 | |
| 42 | I/O | – | R D4 | |
| 43 | I/O | – | R D5 | |
| 44 | I/O | – | R D6 | |
| 45 | I/O | – | R D7 | |
| 41 | | | Vss | Ground |
| 46 | | | Vdd | Connected to 5V power supply. |
| 47 | O | – | ADR 9 | Address data (per bit) |
| 48 | O | – | ADR 8 | |
| 49 | O | – | ADR 7 | |
| 50 | O | – | ADR 6 | |
| 52 | O | – | ADR 5 | |
| 53 | O | – | ADR 4 | |
| 54 | O | – | ADR 3 | |
| 55 | O | – | ADR 2 | |
| 56 | O | – | ADR 1 | |
| 57 | O | – | ADR 0 | |
| 51 | | | Vss | Ground |
| 58 | O | – | FRZ | Freeze mode output |
| 59 | O | – | RW | VY-170 write output |
| 60 | | | Vdd | Connected to 5V power supply |
| 61 | | | Vss | Ground |
| 62 | I | – | DA | VY-170 input data attribute switching (Hi: Address) |
| 63 | I/O | – | D7 | Parallel data (per bit) |
| 64 | I/O | – | D6 | |
| 65 | I/O | – | D5 | |
| 66 | I/O | – | D4 | |
| 67 | I/O | – | D3 | |
| 68 | I/O | – | D2 | |
| 69 | I/O | – | D1 | |
| 70 | I/O | – | D0 | |
| 71 | | | Vss | Ground |
| 72 | I | – | MRST | Connected to 5V power supply. |
| 73 | O | – | FAFB | Field discrimination output (Hi: ODD) |
| 74 | I | – | IF | VY-170/VY-300 model switching (Hi: VY-170) |
| 75 | I | – | ENIN | Data read enable signal (Lo: READ) |
| 76 | | | Vdd | Connected to 5V power supply |
| 77 | O | – | BUSY | Transfer busy output |
| 78 | I | – | MDTR | Clock pulse to read data from memory |
| 79 | I | – | CK 1 | Pulse to latch the VY-170 input data |
| 80 | I | – | SCIN | Sampling clock pulse |
| 81 | | | Vss | Ground |

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 82 | O | – | DOWN | PLL DOWN output |
| 83 | O | – | UP | PLL UP output |
| 84 | I |  | RES 1 | Not used (ground). |
| 85 | O | – | RES 3 | Not used. |
| 86 | O | – | RES 4 | Not used. |
| 87 | O | – | CURT 1 | Curtain signal |
| 88 | O | – | DABLK | D/A converter blanking signal |
| 89 | I | – | VDIN | Vertical sync input |
| 90 | I | – | HDIN | Horizontal sync input |
| 91 |  |  | Vdd | Connected to 5V power supply. |
| 92 | I | – | CSIN | Composite sync input |
| 93 | O | – | CP 1 | A/D converter clamp pulse |
| 94 | O | – | ADCK | A/D converter sampling pulse |
| 95 | O | – | ADOE | A/D converter output enable signal |
| 96 | O | – | DACK | D/A converter clock pulse |
| 97 | O | – | SHBN | Horizontal blanking signal |
| 98 | O | – | SHDN | Horizontal sync output |
| 99 | O | – | SVDN | Vertical sync output |
| 100 | O | – | 4fsc | 4fsc pulse output |
| 101 |  |  | Vss | Ground |
| 102 | O | – | SC | Subcarrier output to encoder |
| 103 | O | – | ESYNC | Composite sync output to encoder |
| 104 | O | – | BF | Burst flag output to encoder |
| 106 |  |  | Vdd | Connected to 5V power supply. |
| 105 | I | – | OPA0 | VY-300 extended address data |
| 107 | I | – | OPA1 |  |
| 108 | I | – | OPA2 |  |
| 109 | I | – | OPA3 |  |
| 110 | I | – | OPA4 |  |
| 112 | I | – | OPA5 |  |
| 113 | I | – | OPA6 |  |
| 114 | I | – | OPA7 |  |
| 115 | I | Lo | RD | VY-300 I/F microprocessor read signal |
| 116 | I | Lo | WD | VY-300 I/F microprocessor write signal |
| 111 |  |  | Vss | Ground |
| 120 |  |  | Vdd | Connected to 5V power supply. |

## THERMAL HEAD DRIVER (MB635120) PIN FUNCTIONS

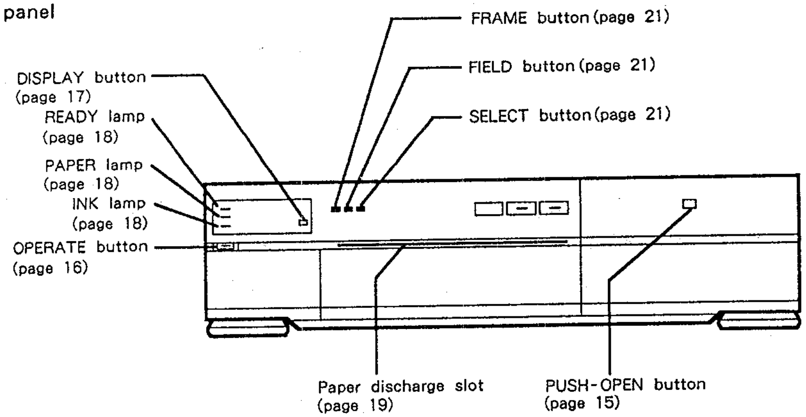
| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 1 |  |  | Vss | Ground |
| 2 | O | – | SP0 | Serial-parallel conversion outputs (per bit) |
| 3 | O | – | SP1 |  |
| 4 | O | – | SP2 |  |
| 5 | O | – | SP3 |  |
| 6 | O | – | SP4 |  |
| 7 | O | – | SP5 |  |
| 8 | O | – | SP6 |  |
| 9 | O | – | SP7 |  |
| 10 | O | – | SP8 |  |
| 11 |  |  | Vss | Ground |
| 12 | I | – | SPLH | Parallel register latching clock pulse |

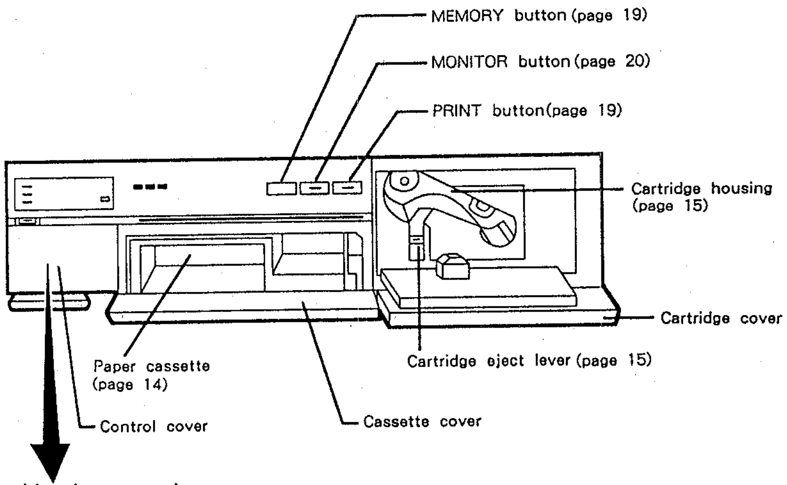
| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 13 | O | – | RAO0 | Not used. |
| 14 | O | – | RAO1 | |
| 15 | O | – | RAO2 | |
| 18 | O | – | RAO3 | |
| 19 | O | – | RAO4 | |
| 20 | O | – | RAO5 | |
| 22 | O | – | RAO6 | |
| 23 | O | – | RAO7 | |
| 24 | O | – | RAO8 | |
| 25 | O | – | RAO9 | |
| 16 | | | Vdd | Connected to 5V power supply. |
| 17 | I | – | MRST | Resets the head drive gate array. |
| 26 | I | – | RAI0 | Not used (ground). |
| 27 | I | – | RAI1 | |
| 28 | I | – | RAI2 | |
| 29 | I | – | RAI3 | |
| 30 | I | – | RAI4 | |
| 32 | I | – | RAI5 | |
| 33 | I | – | RAI6 | |
| 34 | I | – | RAI7 | |
| 35 | I | – | RAI8 | |
| 36 | I | – | RAI9 | |
| 21 | | | Vss | Ground |
| 31 | | | Vss | Ground |
| 37 | I | – | PSNI | One-line print start signal |
| 38 | I | – | PLRN | Print mode signal |
| 39 | O | – | SDRQ | Strobe data transfer request |
| 40 | I | – | DLTH | Latch signal of PDA1 input |
| 41 | | | Vss | Ground |
| 42 | I | – | SCKI | Clock pulse input for PDA1 |
| 43 | I | – | PDAI | Initial setting data/head strobe period data |
| 44 | I | – | VWF | Vertical-direction white frame signal |
| 45 | O | – | MDRQ | One-line data transfer request signal |
| 46 | | | Vdd | Connected to 5V power supply. |
| 47 | O | – | MDTR | Video data transfer request signal |
| 48 | I | – | BUSY | Video data transfer set-up signal |
| 49 | I | – | ENIN | Data write enable signal |
| 50 | I | – | MACK | Thermal head drive clock pulse input |
| 51 | | | Vss | Ground |
| 52 | I | – | IND0 | Video data inputs (per bit) |
| 53 | I | – | IND1 | |
| 54 | I | – | IND2 | |
| 55 | I | – | IND3 | |
| 56 | I | – | IND4 | |
| 57 | I | – | IND5 | |
| 58 | I | – | IND6 | |
| 59 | I | – | IND7 | |
| 60 | | | Vdd | Connected to 5V power supply. |
| 61 | | | Vss | Ground |
| 62 | I | – | OFSL | Not used (connected to 5V power supply). |
| 63 | I | – | WEI | Not used (ground). |
| 64 | O | – | WEO | Not used. |
| 65 | O | – | WFL | |
| 66 | O | – | WFUP | |
| 67 | O | – | CKOT | |
| 68 | O | – | ENOT | |

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 69 | O | – | MDLH | Video data clock pulse output |
| 70 | I | – | TRCK | Video data clock pulse input |
| 71 | | | Vss | Ground |
| 72 | I | – | BRCK | Not used (ground) |
| 73 | I | – | EXRQ | |
| 74 | I | – | SONC | |
| 75 | I | – | SOFC | |
| 76 | | | Vdd | Connected to 5V power supply. |
| 77 | O | – | GR7 | Not used. |
| 78 | O | – | GR6 | |
| 79 | O | – | GR5 | |
| 80 | O | – | GR4 | |
| 81 | | | Vss | Ground |
| 82 | O | – | GR3 | Not used. |
| 83 | O | – | GR2 | |
| 84 | O | – | GR1 | |
| 85 | O | – | GR0 | |
| 86 | I | – | MTD7 | Not used (ground). |
| 87 | I | – | MTD6 | |
| 88 | I | – | MTD5 | |
| 89 | I | – | MTD4 | |
| 90 | I | – | MTD3 | |
| 91 | | | Vss | Ground |
| 92 | I | – | MTD2 | Not used (ground). |
| 93 | I | – | MTD1 | |
| 94 | I | – | MTD0 | |
| 95 | O | – | HD10 | Thermal head data (per bit) |
| 96 | O | – | HD9 | |
| 97 | O | – | HD8 | |
| 98 | O | – | HD7 | |
| 99 | O | – | HD6 | |
| 100 | O | – | HD5 | |
| 102 | O | – | HD4 | |
| 103 | O | – | HD3 | |
| 104 | O | – | HD2 | |
| 105 | O | – | HD1 | |
| 101 | | | Vss | Ground |
| 106 | | | Vdd | Connected to 5V power supply. |
| 107 | O | – | HCK | Clock pulse for thermal head data |
| 108 | O | – | STRB | Thermal head turning-on strobe signal |
| 109 | O | – | HTLH | Latch pulse for thermal head data |
| 110 | I | – | REV | Not used (ground). |
| 111 | | | Vss | Ground |
| 112 | I | – | TES0 | Not used (ground). |
| 113 | I | – | TES1 | |
| 114 | I | – | MTES | |
| 115 | I | – | MTUD | |
| 116 | I | – | RE | |
| 117 | I | – | FGIN | Not used (connected to 5V power supply). |
| 118 | O | – | FG OUT | Not used. |
| 119 | O | – | SCOF | Not used (ground). |
| 120 | | | Vdd | Connected to 5V power supply. |

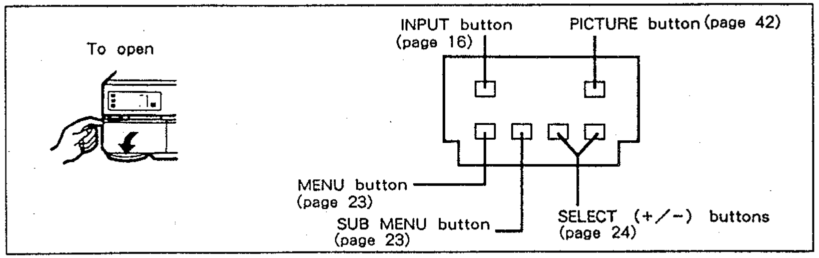
## Parts names

### Front panel

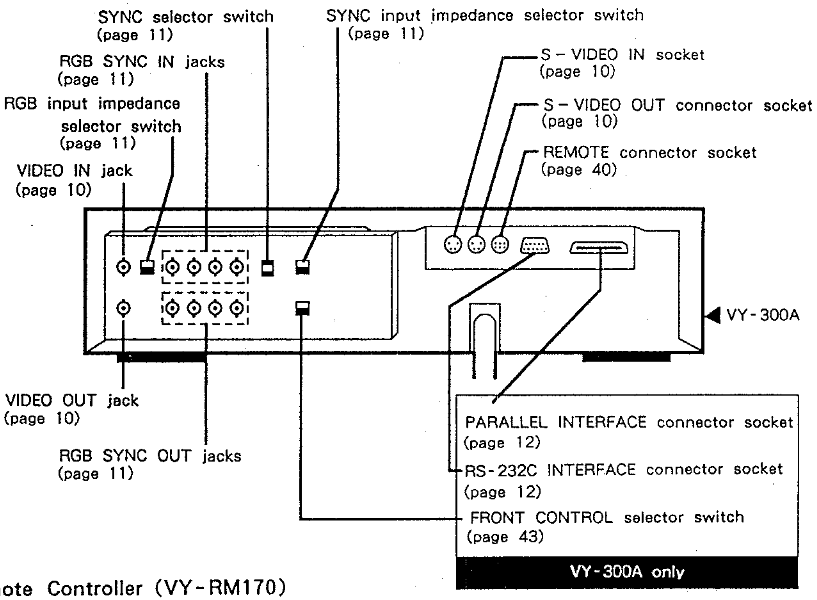

FRAME button (page 21)
FIELD button (page 21)
SELECT button (page 21)
DISPLAY button (page 17)
READY lamp (page 18)
PAPER lamp (page 18)
INK lamp (page 18)
OPERATE button (page 16)
Paper discharge slot (page 19)
PUSH-OPEN button (page 15)


MEMORY button (page 19)
MONITOR button (page 20)
PRINT button(page 19)
Cartridge housing (page 15)
Cartridge cover
Cartridge eject lever (page 15)
Paper cassette (page 14)
Control cover
Cassette cover

### Inside the control cover

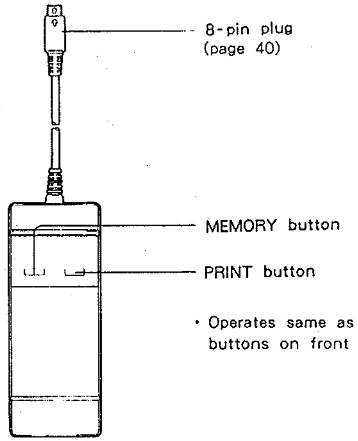

To open
INPUT button (page 16)
PICTURE button (page 42)
MENU button (page 23)
SUB MENU button (page 23)
SELECT (+/−) buttons (page 24)

### Rear Panel


SYNC selector switch (page 11)
SYNC input impedance selector switch (page 11)
RGB SYNC IN jacks (page 11)
RGB input impedance selector switch (page 11)
VIDEO IN jack (page 10)
S-VIDEO IN socket (page 10)
S-VIDEO OUT connector socket (page 10)
REMOTE connector socket (page 40)
VY-300A
VIDEO OUT jack (page 10)
RGB SYNC OUT jacks (page 11)
PARALLEL INTERFACE connector socket (page 12)
RS-232C INTERFACE connector socket (page 12)
FRONT CONTROL selector switch (page 43)
VY-300A only

### Remote Controller (VY-RM170)

VY-170A ····· Purchased separately
VY-300A ····· Provided

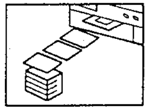

8-pin plug (page 40)
MEMORY button
PRINT button

- Operates same as MEMORY and PRINT buttons on front printer panel.

## Functions

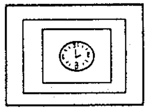
Select the function to be used from those below.
For more information on how to program these functions, see the page listed and the following page.

### Print mode



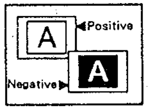
Continuous print

See P.24.



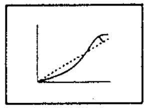
Mirror-reverse print

See P.24.



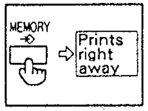
Negative/positive reverse print

See P.25.



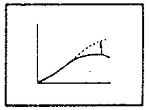
Gamma characteristics switching

See P.25.



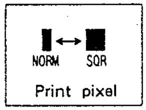
One-step print

See P.26.



High contrast print

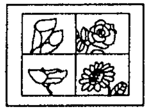
See P.26.



Programming pixel density [VY-300A only]

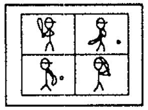
See P.27

### Multi-mode



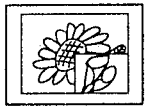
Single-frame memory

See P.28.



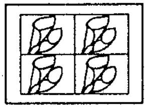
Strobe memory

See P.29.



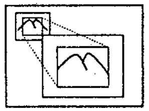
P-in-P memory (Picture-in-picture)

See P.30.



Multiple same-picture printing

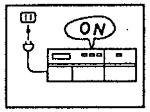
See P.31.



2X zoom print

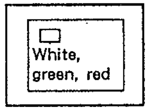
See P.32.

### Option



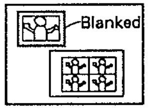
Auto-power on

See P.34.



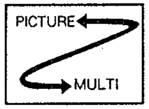
Frame color

See P.34.



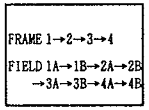
Multi-area switching

See P.35.



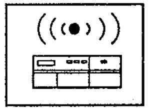
Switch select

See P.35.



Auto-memory change [VY-300A only]

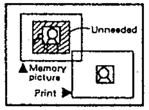
See P.36.



Electronic tone on/off [VY-300A only]

See P.36.

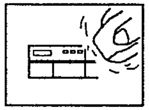
### Print area



Trim print area

See P.33.

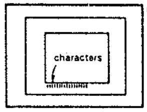
### Clear



Memory backup } clear

See P.37.

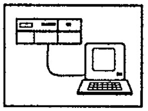
### Comment [VY-300A only]



Comment function

See P.38.

### Initialize interface [VY-300Aonly]

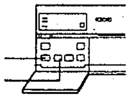


Program interface

See P.39.

## Basic operations for programming functions

All functions are programmed in sub-menus. For further details on how to program these functions, see the pages where each function is described.



1. Press MENU and move arrow to the parameter to be programmed.

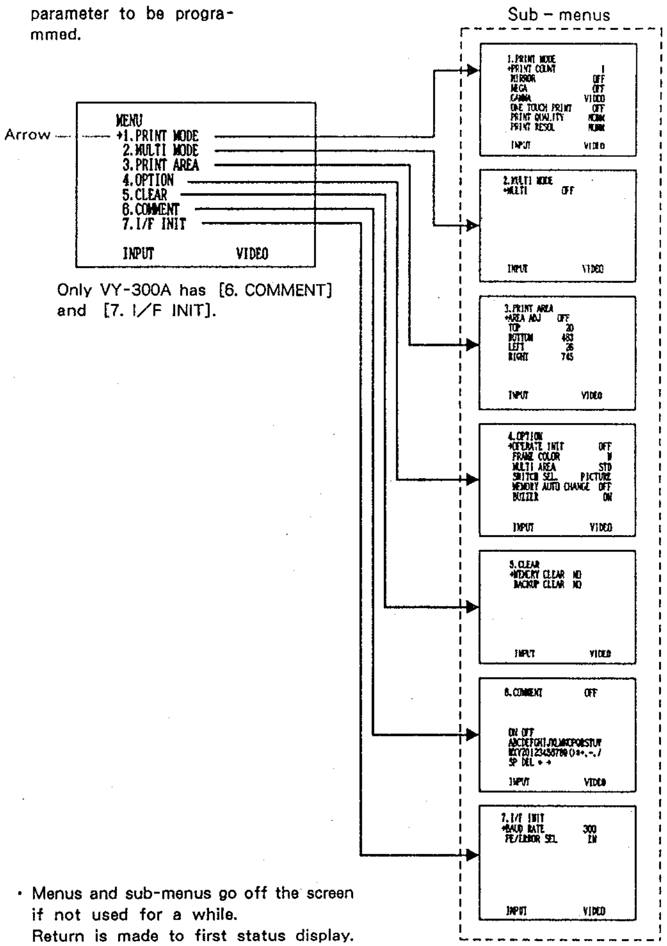
MENU SUB MENU

- Pressing MENU displays the menu.
- Press MENU again and move arrow to the parameter to be programmed.

2. Press SUB MENU.

Sub-menu appears on the monitor screen.

MENU SUB MENU



```
MENU
→1.PRINT MODE
 2.MULTI MODE
 3.PRINT AREA
 4.OPTION
 5.CLEAR
 6.COMMENT
 7.I/F INIT
INPUT        VIDEO
```

```
1.PRINT MODE
→PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
 PRINT QUALITY     NORM
 PRINT RESOL       NORM
INPUT             VIDEO
```

```
2.MULTI MODE
→MULTI        OFF
INPUT             VIDEO
```

```
3.PRINT AREA
→AREA ADJ     OFF
 TOP           20
 BOTTOM       483
 LEFT          26
 RIGHT        745
INPUT             VIDEO
```

```
4.OPTION
→OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON
INPUT                VIDEO
```

```
5.CLEAR
→MEMORY CLEAR  NO
 BACKUP CLEAR  NO
INPUT             VIDEO
```

```
6.COMMENT          OFF
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT             VIDEO
```

```
7.I/F INIT
→BAUD RATE         300
 PE/ERROR SEL       IN
INPUT             VIDEO
```

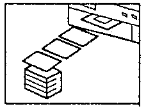
Only VY-300A has [6. COMMENT] and [7. I/F INIT].

1. PRINT MODE
   See P.24 – 27.
2. MULTI MODE
   See P.28 – 32.
3. PRINT AREA
   See P.33.
4. OPTIONS
   See P.34 – 36.
5. CLEAR
   See P.37.
6. COMMENT
   [VY – 300A Only]
   See P.38.
7. I/F INIT
   [VY – 300A Only]
   See P.39.

- Menus and sub-menus go off the screen if not used for a while. Return is made to first status display. See P.17
- If the menu goes off the screen during programming, repeat the steps above.

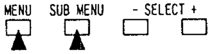
# Print Mode

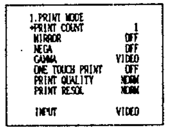
## Continuous printing



Can be programmed to print from 2 to 50 pages. Perform the following operations before and during printing.

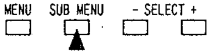
1. Press MENU and move arrow to 1. PRINT MODE. Then press SUB MENU. See P.23.

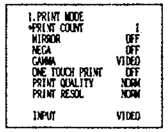




```
1.PRINT MODE
→PRINT COUNT           1
 MIRROR              OFF
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

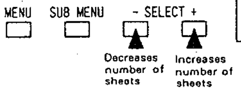
2. Press SUB MENU again. Move arrow to PRINT COUNT.

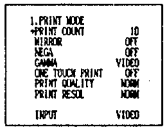




```
1.PRINT MODE
→PRINT COUNT           1
 MIRROR              OFF
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

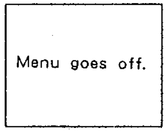
3. Press SELECT [+] or [ - ] to specify the number of sheets.





```
1.PRINT MODE
→PRINT COUNT          10
 MIRROR              OFF
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

4. Press DISPLAY



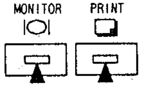
Menu goes off.

- Specification of number of sheets is complete when display goes off the screen.
- Press PRINT to print out the specified numberof sheets.
- The status display menu shows the number of the sheet printing. (see p. 20)

If print cartridge or paper runs out during printing
Put new paper or cartridge in the printer and press PRINT once more. The print starts again and the number of sheets is counted.

If C in step 3 is specified
Print continues until print paper or cartridge runs out.

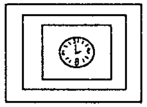
To suspend continuous printing



Press MONITOR and PRINT at the same time. STOP displays on the monitor. The paper being printed completes printing and the printer into standby status.

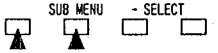
Press simultaneously

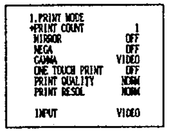
## Mirror-reverse printing



Picture is printed as if seen in a mirror with right and left reversed. Program mirror-reverse when using cloth transfer print kit.

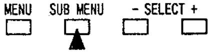
1. Press MENU and move arrow to 1. PRINT MODE. Then press SUB MENU. See P.23.

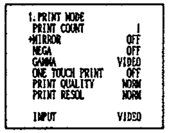




```
1.PRINT MODE
→PRINT COUNT           1
 MIRROR              OFF
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

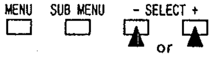
2. Press SUB MENU again. Move arrow to MIRROR.

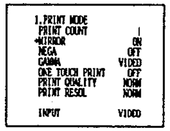




```
1.PRINT MODE
 PRINT COUNT           1
→MIRROR              OFF
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

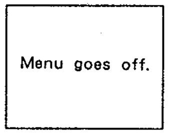
3. Press SUB SELECT [+] or [ - ] to specify MIRROR ON.





```
1.PRINT MODE
 PRINT COUNT           1
→MIRROR               ON
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

4. Press DISPLAY.



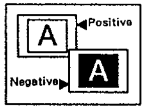
Menu goes off.

- The display goes off and the mirror-reverse mode is enabled.
- Press PRINT to start mirror-reverse printing.

To clear
Specify MIRROR OFF in step 3.

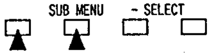
To change programming while printing
Programming can be changed in the monitor menu, but the change does not take effect until the print now in progress ends.
To change continuous printing, place the printer on pause by pressing MONITOR and PRINT simultaneously, change the program and start the printer again.

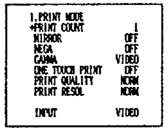
## Negative/positive reverse printing



Prints a picture that is reversed in contrast and hue just like a film negative.

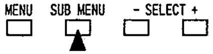
1. Press MENU and move arrow to 1. PRINT MODE. Then press SUB MENU. See P.23.

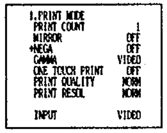




```
1.PRINT MODE
→PRINT COUNT           1
 MIRROR              OFF
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

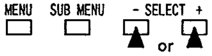
2. Press SUB MENU again. Move arrow to NEGA.

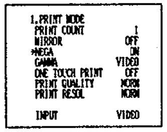




```
1.PRINT MODE
 PRINT COUNT           1
 MIRROR              OFF
→NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

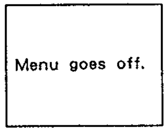
3. Press SELECT [+] or [-] to specify NEGA ON.





```
1.PRINT MODE
 PRINT COUNT           1
 MIRROR              OFF
→NEGA                 ON
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

4. Press DISPLAY.



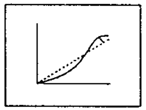
Menu goes off.

- Specification of negative reverse mode is complete when display goes off the screen.
- Press PRINT to print out the negative picture.

To clear
Specify NEGA OFF in step 3.

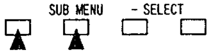
To change programming while printing
Programming can be changed in the monitor menu, but the change does not take effect until the print now in progress ends.
To change continuous printing, place the printer on pause by pressing MONITOR and PRINT simultaneously, change the program and start the printer again.

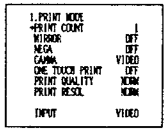
## Gamma characteristics switching



Use mainly for printing pictures from measuring equipment.
Prints the picture faithfully to its input contrast.

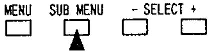
1. Press MENU and move arrow to 1. PRINT MODE. Then press SUB MENU. See. P.23.

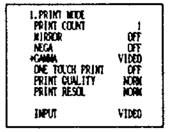




```
1.PRINT MODE
→PRINT COUNT           1
 MIRROR              OFF
 NEGA                OFF
 GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

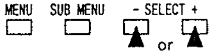
2. Press SUB MENU again. Move arrow to GAMMA.

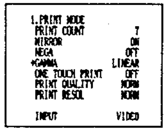




```
1.PRINT MODE
 PRINT COUNT           1
 MIRROR              OFF
 NEGA                OFF
→GAMMA             VIDEO
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

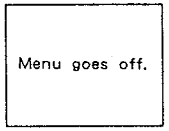
3. Press SELECT [+] or [-] to specify GAMMA LINEAR.





```
1.PRINT MODE
 PRINT COUNT           7
 MIRROR               ON
 NEGA                OFF
→GAMMA            LINEAR
 ONE TOUCH PRINT     OFF
 PRINT QUALITY      NORM
 PRINT RESOL        NORM

 INPUT             VIDEO
```

4. Press DISPLAY



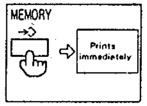
Menu goes off.

To return to original state
Specify GAMMA VIDEO in step 3.

To change programming while printing
Programming can be changed in the monitor menu, but the change does not take effect until the print now in progress ends.
To change continuous printing, place the printer on pause by pressing MONITOR and PRINT simultaneously, change the program and start the printer again.
GAMMA VIDEO : Emphasizes contrast somewhat to give a sharper picture. Best for printing pictures from camcorders or VCRs.
GAMMA LINEAR : Prints exactly according to information input on print contrast.

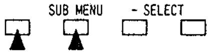
## Print Mode (cont'd)

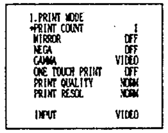
### One-step printing



Pressing MEMORY stores picture in memory and starts it printing at the same time.

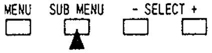
1. Press MENU and move arrow to 1. PRINT MODE. Then press SUB MENU. See P.23.

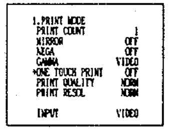




```
1.PRINT MODE
→PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
 PRINT QUALITY     NORM
 PRINT RESOL       NORM

 INPUT            VIDEO
```

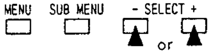
2. Press SUB MENU again. Move arrow to ONE TOUCH PRINT.

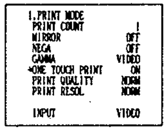




```
1.PRINT MODE
 PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
→ONE TOUCH PRINT    OFF
 PRINT QUALITY     NORM
 PRINT RESOL       NORM

 INPUT            VIDEO
```

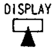
3. Press SELECT [+] or [−] to specify ONE TOUCH PRINT ON.





```
1.PRINT MODE
 PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
→ONE TOUCH PRINT     ON
 PRINT QUALITY     NORM
 PRINT RESOL       NORM

 INPUT            VIDEO
```

4. Press DISPLAY.



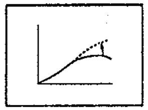
Menu goes off.

- One-step print mode is enabled when display goes off the screen.
- No need to press PRINT because pressing MEMORY starts print out as well as storage.

To clear
Specify ONE TOUCH PRINT OFF in step 3.

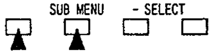
To print same picture again
Press PRINT to start printing.

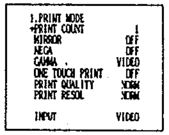
### High contrast printing



Increases the contrast on high contrast sections to give a sharper print picture.
We recommend high contrast printing when using gummed label print kit and cloth transfer print kit.

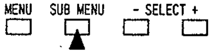
1. Press MENU and move arrow to 1. PRINT MODE. Then press SUB MENU. See P.23.

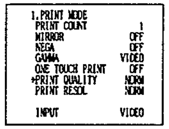




```
1.PRINT MODE
→PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
 PRINT QUALITY     NORM
 PRINT RESOL       NORM

 INPUT            VIDEO
```

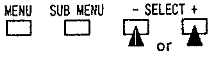
2. Press SUB MENU again. Move arrow to PRINT QUALITY.

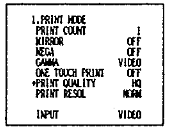




```
1.PRINT MODE
 PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
→PRINT QUALITY     NORM
 PRINT RESOL       NORM

 INPUT            VIDEO
```

3. Press SELECT [+] or [−] to specify PRINT QUALITY HQ.





```
1.PRINT MODE
 PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
→PRINT QUALITY       HQ
 PRINT RESOL       NORM

 INPUT            VIDEO
```

4. Press DISPLAY.

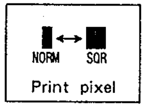
Menu goes off.

To return to original state
Specify PRINT QUALITY NORM in step 3.
Note : Programming cannot be changed while printing is in operation.

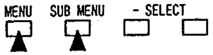
Printing time
One sheet takes about 90 seconds to print.

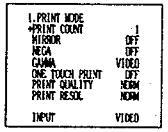
### Programming pixel density [VY-300A only]

Program when printing picture input from a personal computer, etc., to the PARALLEL INTERFACE jack.



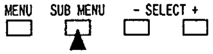
1. Press MENU and move arrow to 1. PRINT MODE. Then press SUB MENU. See P.23.

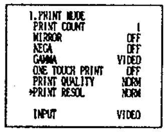




```
1.PRINT MODE
→PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
 PRINT QUALITY     NORM
 PRINT RESOL       NORM

 INPUT            VIDEO
```

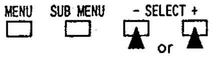
2. Press SUB MENU again. Move arrow to PRINT RESOL.

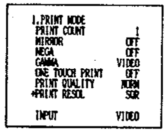




```
1.PRINT MODE
 PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
 PRINT QUALITY     NORM
→PRINT RESOL       NORM

 INPUT            VIDEO
```

3. Press SELECT [+] or [−] to specify PRINT RESOL SQR or HQ.





```
1.PRINT MODE
 PRINT COUNT          1
 MIRROR             OFF
 NEGA               OFF
 GAMMA            VIDEO
 ONE TOUCH PRINT    OFF
 PRINT QUALITY     NORM
→PRINT RESOL        SQR

 INPUT            VIDEO
```

- The display temporarily goes off. This is not a malfunction.

4. Press DISPLAY.

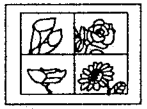
Menu goes off.

To return to original state
Specify PRINT RESOL NORM in step 3.
**Note :** Programming cannot be changed while printing is in operation.

PRINT RESOL NORM : Horizontal print pixels have higher density, and high-definition print is obtained.
PRINT RESOL SQR : Horizontal and vertical pixel densities are almost the same, and pixels are almost square in shape. Best for processing pictures from personal computers.

**Note :** The aspect ratio of pictures in memory and print pictures changes during programming and causes unstored parts of the picture to appear. This is not a malfunction. If it happens, store the picture again and print it.

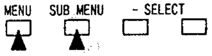
## Single-frame memory

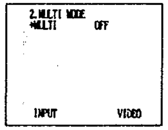


Divides one sheet of memory into 4, 16 or 25 screens and stores the different pictures for printing on one sheet of paper.

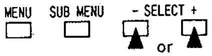
### Programming for single-frame memory

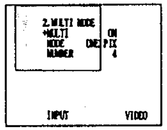
1. Press MENU and move arrow to 2. MULTI MODE. Then press SUB MENU. See P.23.


MENU
SUB MENU
- SELECT

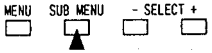

2.MULTI MODE
▸MULTI OFF
INPUT
VIDEO

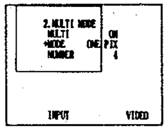
2. Press SELECT [+] or [−] to specify MULTI ON.


MENU
SUB MENU
- SELECT +
or

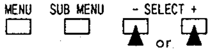

2.MULTI MODE
▸MULTI ON
MODE ONE PIX
NUMBER 4
INPUT
VIDEO

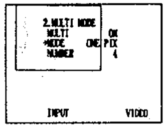
3. Press SUB MENU to move arrow to MODE.


MENU
SUB MENU
- SELECT +


2.MULTI MODE
MULTI ON
▸MODE ONE PIX
NUMBER 4
INPUT
VIDEO

4. Press SELECT [+] or [−] to specify ONE PIX.

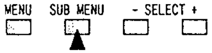

MENU
SUB MENU
- SELECT +
or

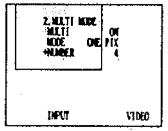

2.MULTI MODE
MULTI ON
▸MODE ONE PIX
NUMBER 4
INPUT
VIDEO

- Mode changes every time SELECT [+] is pressed in the sequence shown below. Sequence reverses when SELECT [−] is pressed.

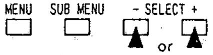
→ ONE PIX → CONT → P in P ┐
└ 2X ZOOM ← REPEAT ←

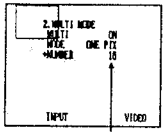
5. Press SUB MENU move arrow to NUMBER.


MENU
SUB MENU
- SELECT +


2.MULTI MODE
MULTI ON
MODE ONE PIX
▸NUMBER 4
INPUT
VIDEO

6. Press SELECT [+] or [−] to specify the number of pictures.

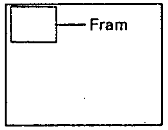

MENU
SUB MENU
- SELECT +
or


2.MULTI MODE
MULTI ON
MODE ONE PIX
▸NUMBER 16
INPUT
VIDEO

16 pictures

- The number of pictures is 4, 16 or 25. The display here shows 16 pictures.
- The size of frame at top left on the monitor screen changes according to the specified number of picture.

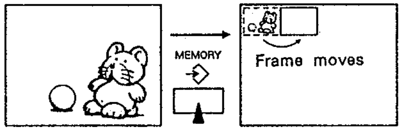
7. Press DISPLAY.



- Sub menu goes off.

### Single-frame memory and how to print

1. Watch the monitor and press MEMORY for the picture to be printed.


MEMORY
Frame moves

- Picture at the frame location (dotted lines) is stored.
- When the picture is stored, a move is made to the next picture.

2. Other pictures are stored as in 1.

- Printing starts automatically when one-step print is on (see P.26) and the bottom right picture is stored.

3. Press PRINT.

To store part of a picture again

After the picture in memory displays, press SELECT [+] or [−] to move the frame to the picture to be re-stored. To store again press MEMORY.

- Pressing SELECT [+] moves to the next picture, pressing SELECT [−] moves back to the previous picture. Hold down for continuous moves in either direction.

To change the frame color, see p.34

To clear

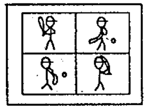
Specify MULTI OFF in step 2 on the left.

If an unneeded picture appears across the top of screen

This happens after 25 pictures are programmed, the pictures are not stored and printing starts. To prevent it, store pictures first and then start printing.

---

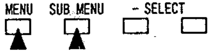
## Strobe memory

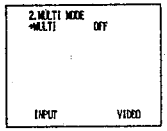


Divides one sheet of memory into 4, 16 or 25 screens and stores all the pictures in sequence at a specified interval (1/2, 1/4, 1/15, or 1/30 S) for printing on one sheet of paper.

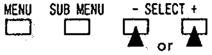
### Programming for strobe memory

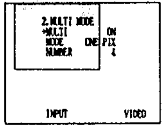
1. Press MENU and move arrow to 3. PRINT AREA. Then press SUB MENU. (See P.23)


MENU
SUB MENU
- SELECT

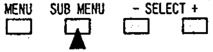

2.MULTI MODE
▸MULTI OFF
INPUT
VIDEO

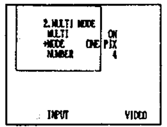
2. Press SELECT [+] or [−] to specify AREA ADJ ON.


MENU
SUB MENU
- SELECT +
or

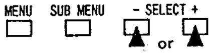

2.MULTI MODE
▸MULTI ON
MODE ONE PIX
NUMBER 4
INPUT
VIDEO

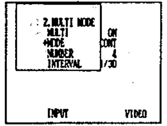
3. Press SUB MENU to move arrow to TOP.


MENU
SUB MENU
- SELECT +


2.MULTI MODE
MULTI ON
▸MODE ONE PIX
NUMBER 4
INPUT
VIDEO

4. Press SELECT [+] or [−] to specify CONT.

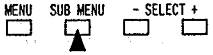

MENU
SUB MENU
- SELECT +
or

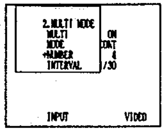

2.MULTI MODE
MULTI ON
▸MODE CONT
NUMBER 4
INTERVAL 1/30
INPUT
VIDEO

- Every pressing of SELECT [+] changes the mode in the sequence shown below. The sequence reverses during pressing of SELECT [−].

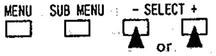
→ ONE PIX → CONT → P in P ┐
└ 2X ZOOM ← REPEAT ←

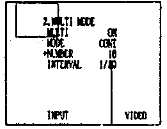
5. Press SUB MENU to move arrow to NUMBER.


MENU
SUB MENU
- SELECT +


2.MULTI MODE
MULTI ON
MODE CONT
▸NUMBER 4
INTERVAL 1/30
INPUT
VIDEO

6. Press SELECT [+] or [−] to specify the number of pictures.

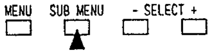

MENU
SUB MENU
- SELECT +
or

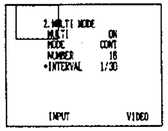

2.MULTI MODE
MULTI ON
MODE CONT
▸NUMBER 16
INTERVAL 1/30
INPUT
VIDEO

16 pictures

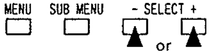
- The number of pictures is 4, 16 or 25. Here are shown 16 pictures.
- The size of frame at top left on the monitor screen changes according to the specified number of picture.

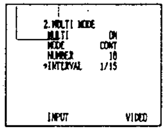
7. Press SUB MENU to move arrow to INTERVAL.


MENU
SUB MENU
- SELECT +


2.MULTI MODE
MULTI ON
MODE CONT
NUMBER 16
▸INTERVAL 1/30
INPUT
VIDEO

8. Press SELECT [+] or [−] to specify the time interval.


MENU
SUB MENU
- SELECT +
or


2.MULTI MODE
MULTI ON
MODE CONT
NUMBER 16
▸INTERVAL 1/15
INPUT
VIDEO

- Every pressing of SELECT [+] changes the time interval in the sequence shown below. The sequence reverses during pressing of SELECT [−].

→ 1/2 → 1/4 → 1/15 → 1/30 ┐

- The diagram shows 1/15 second intervals.

9. Press DISPLAY
- Sub menu goes off.

### Strobe memory and how to print

Pressing MEMORY once stores all divided pictures in memory. To print, press PRINT.

- Printing starts automatically when one-step print is on (see p. 26) and all pictures are stored.

Strobe memory required time

| Interval (seconds) / Pictures | 1/2 | 1/4 | 1/15 | 1/30 |
|---|---|---|---|---|
| 4 | 2.00 s | 1.00 s | 0.26 s | 0.13 s |
| 16 | 8.00 s | 4.00 s | 1.06 s | 0.53 s |
| 25 | 12.50 s | 6.25 s | 1.66 s | 0.83 s |

Required time changes as combination of number of pictures selected and interval changes. Select time for operation to be stored from this table.

To change frame color, see p. 34.

To clear

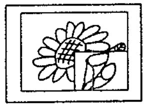
Specify MULTI OFF in step 2 on the left.

If an unneeded picture appears across the top of screen

This happens after 25 pictures are programmed, the pictures are not stored and printing starts. To prevent it, store pictures first and then start printing.

## Multi-mode (cont'd)

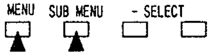
### Picture-in-picture (P-in-P) memory

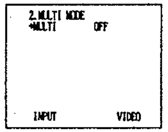


Inserts 1/4-sized or 1/16th-sized sub-picture into lower right of main picture.

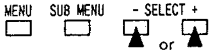
Programming for P-in-P memory

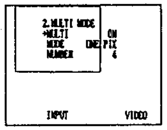
1. Press MENU and move arrow to 2. MULTI MODE. Then press SUB MENU. See P.23.


MENU
SUB MENU
- SELECT

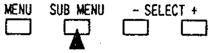

2.MULTI MODE
→MULTI OFF
INPUT
VIDEO

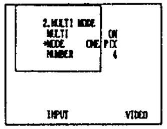
2. Press SELECT [+] or [−] to specify MULTI ON.


MENU
SUB MENU
- SELECT +
or

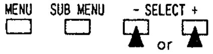

2.MULTI MODE
→MULTI ON
MODE ONE PIX
NUMBER 4
INPUT
VIDEO

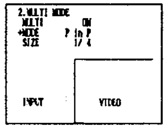
3. Press SUB MENU to move arrow to MODE.


MENU
SUB MENU
- SELECT +

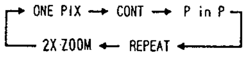

2.MULTI MODE
MULTI ON
→MODE ONE PIX
NUMBER 4
INPUT
VIDEO

4. Press SELECT [+] or [−] to specify P in P.

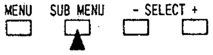

MENU
SUB MENU
- SELECT +
or

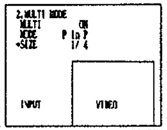

2.MULTI MODE
MULTI ON
→MODE P in P
SIZE 1/4
INPUT
VIDEO

- Every pressing of SELECT [+] changes the mode in the sequence shown below. The sequence reverses during pressing of SELECT [−].


ONE PIX
CONT
P in P
REPEAT
2X ZOOM

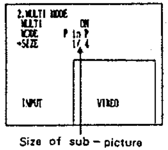
5. Press SUB MENU to move arrow to SIZE.


MENU
SUB MENU
- SELECT +


2.MULTI MODE
MULTI ON
MODE P in P
→SIZE 1/4
INPUT
VIDEO

6. Press SELECT [+] or [−] to specify the size of the sub-picture.

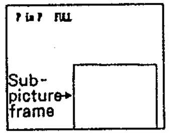
MENU
SUB MENU
- SELECT +
or


2.MULTI MODE
MULTI ON
MODE P in P
→SIZE 1/4
INPUT
VIDEO
Size of sub-picture

- There are two sub-picture sizes, 1/4 and 1/16 that of the main picture.
- The frame with the specified size is displayed at bottom right on the monitor screen.

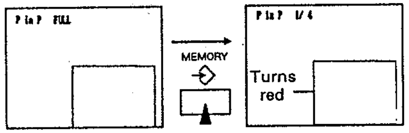
7. Press DISPLAY

- Sub menu goes off.


P in P FULL
Sub-picture frame

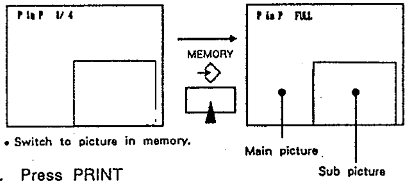
P-in-P memory and how to print

1. When the picture is positioned as required in the main picture, press MEMORY.


P in P FULL
MEMORY
P in P 1/4
Turns red

- When the main picture is stored, the sub-picture frame will turn red and the source picture will come back on the screen.

2. When the sub-picture is positioned as required, press MEMORY.


P in P 1/4
MEMORY
P in P FULL
Main picture
Sub picture

- Switch to picture in memory.

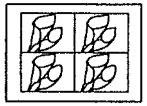
3. Press PRINT

To restore main picture
Press SELECT (+) or (−). Sub-picture frame turns white. Then press MEMORY.

To re-store sub-picture
Press SELECT [+] or [−]. Sub-picture frame turns red. Then press MEMORY.
Note: Re-storing the main picture after storing the sub-picture deletes the sub-picture.

To clear
Specify MULTI OFF in step 2 on the left.

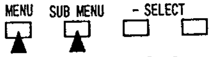
### Multiple same-picture printing

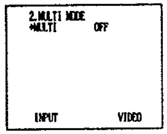


Reduces picture stored in memory to make 4, 16 or 25 picture sections and print them out as one. It will also take out part of two pictures stored in memory divided them into right and left sections and print them out as one.

**Programming for multiple same-picture print**

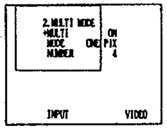
1. Press MENU and move arrow to 2. MULTI MODE. Then press SUB MENU. See P.23.


MENU
SUB MENU
- SELECT


2.MULTI MODE
→MULTI OFF
INPUT
VIDEO

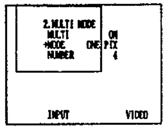
2. Press SELECT [+] or [−] to specify MULTI ON.

MENU
SUB MENU
- SELECT +
or


2.MULTI MODE
→MULTI ON
MODE ONE PIX
NUMBER 4
INPUT
VIDEO

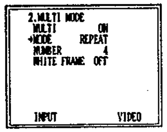
3. Press SUB MENU to move arrow to MODE.

MENU
SUB MENU
- SELECT +

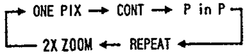

2.MULTI MODE
MULTI ON
→MODE ONE PIX
NUMBER 4
INPUT
VIDEO

4. Press SELECT [+] or [−] to specify REPEAT.

MENU
SUB MENU
- SELECT +
or

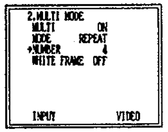

2.MULTI MODE
MULTI ON
→MODE REPEAT
NUMBER 4
WHITE FRAME OFF
INPUT
VIDEO

Every pressing of SELECT [+] changes the mode in the sequence shown below. The sequence reverses during pressing of SELECT [−].

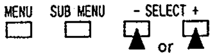

ONE PIX
CONT
P in P
REPEAT
2X ZOOM

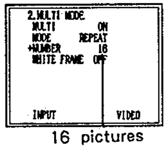
5. Press SUB MENU to move arrow to NUMBER.

MENU
SUB MENU
- SELECT +

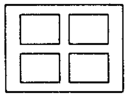

2.MULTI MODE
MULTI ON
MODE REPEAT
→NUMBER 4
WHITE FRAME OFF
INPUT
VIDEO

6. Press SELECT [+] or [−] to specify the number of pictures.


MENU
SUB MENU
- SELECT +
or

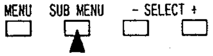

2.MULTI MODE
MULTI ON
MODE REPEAT
→NUMBER 16
WHITE FRAME OFF
INPUT
VIDEO
16 pictures

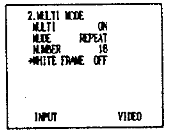
- 2, 4, 16 or 25 pictures may be specified. The diagram shows 16 pictures specified.
- The monitor shows a frame indicating the print range that corresponds to the number of pictures. The frame may not be visible on some monitors.



To insert a white frame, perform steps 7 and 8 below. If no white frame is necessary, skip these steps and go to step 9.

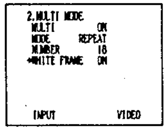
7. Press SUB MENU to move arrow to WHITE FRAME.


MENU
SUB MENU
- SELECT +

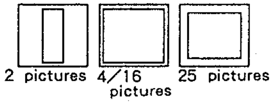

2.MULTI MODE
MULTI ON
MODE REPEAT
NUMBER 16
→WHITE FRAME OFF
INPUT
VIDEO

8. Press SELECT [+] or [−] to specify WHITE FRAME ON.

MENU
SUB MENU
- SELECT +
or


2.MULTI MODE
MULTI ON
MODE REPEAT
NUMBER 16
→WHITE FRAME ON
INPUT
VIDEO

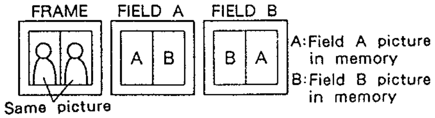
9. Press DISPLAY.
   - Sub-menu goes off.
   - The frame showing the number of pictures selected in step 6 appears on the monitor.


2 pictures
4/16 pictures
25 pictures

**How to print multiple same pictures**

1. View monitor and press MEMORY for scene to be printed.
2. Press PRINT.
   - There is no need to press MEMORY every time for the number of prints desired because in multiple same-picture printing the number of stored pictures will be increased to the number of pictures selected.

Two picture printing
Select the range for the frame to be moved and printed.
Move to right : Press SELECT [+]
Move to left : Press SELECT [−]
- Press and hold for continuous move.
- Printing will be in memory mode (see p. 21) as shown below.


FRAME
FIELD A
FIELD B
A
B
B
A
Same picture

A: Field A picture in memory
B: Field B picture in memory

To print an already stored picture by multiple same-picture printing
Perform steps 1 − 9, then press PRINT.

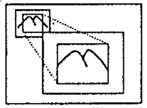
To change picture color, see p. 34.

To clear
Specify MULTI OFF in step 2.

## Multi-mode (cont'd)

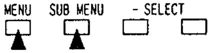
### 2X zoom mode

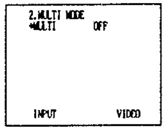
For horizontally and vertically double-enlarging part of a picture stored in memory and printing it out.



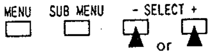
### Programming 2X zoom mode

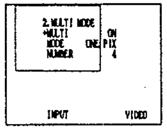
1. Press MENU and move arrow to 2. MULTI MODE. Then press SUB MENU. (See P.23)


MENU
SUB MENU
- SELECT

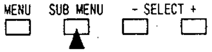

2.MULTI MODE
→MULTI OFF
INPUT VIDEO

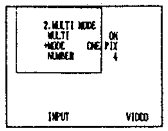
2. Press SELECT [+] or [−] to specify MULTI ON.


MENU
SUB MENU
- SELECT +
or

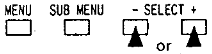

2.MULTI MODE
→MULTI ON
MODE ONE PIX
NUMBER 4
INPUT VIDEO

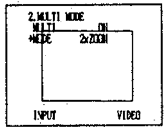
3. Press SUB MENU to move arrow to MODE.


MENU
SUB MENU
- SELECT +

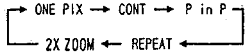

2.MULTI MODE
MULTI ON
→MODE ONE PIX
NUMBER 4
INPUT VIDEO

4. Press SELECT [+] or [−] to specify 2X ZOOM.


MENU
SUB MENU
- SELECT +
or


2.MULTI MODE
MULTI ON
→MODE 2xZOOM
INPUT VIDEO

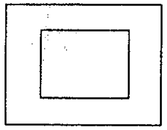
- Every pressing of SELECT [+] changes the mode in the sequence shown below. The sequence reverses during pressing of SELECT [−].


ONE PIX
CONT
P in P
REPEAT
2X ZOOM

- Frame appears on the monitor to indicate the range to which the picture can be enlarged.

5. Press DISPLAY.

- Sub-menu goes off the screen.



### How to print 2X ZOOM

1. View monitor and press MEMORY when required picture appears.
2. Press PRINT.

To move frame

To right : Press SELECT [+]
To left : Press SELECT [−]
Up : Press and hold SUB MENU and press SELECT [−]
Down : Press and hold SUB MENU and press SELECT [+]

- Pressing and holding these buttons will give continuous move.

To print a picture already stored

Perform steps 1 − 5, then press PRINT.

To change frame color (see p. 34)

To clear

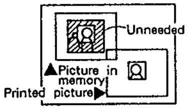
Specify MULTI OFF in step 2 on left.

---

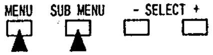
## Print area

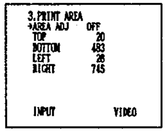
### Programming the print area

Trims away unneeded areas from a picture stored in memory to print only the section desired.

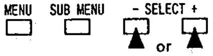

Unneeded
Picture in memory
Printed picture

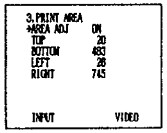
1. Press MENU and move arrow to 3. PRINT AREA. Then press SUB MENU. (See P.23)


MENU
SUB MENU
- SELECT +

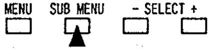

3.PRINT AREA
→AREA ADJ OFF
TOP 20
BOTTOM 483
LEFT 28
RIGHT 745
INPUT VIDEO

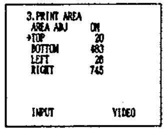
2. Press SELECT [+] or [−] to specify AREA ADJ ON.


MENU
SUB MENU
- SELECT +
or

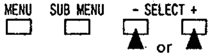

3.PRINT AREA
→AREA ADJ ON
TOP 20
BOTTOM 483
LEFT 28
RIGHT 745
INPUT VIDEO

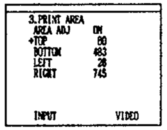
3. Press SUB MENU to move arrow to TOP.


MENU
SUB MENU
- SELECT +

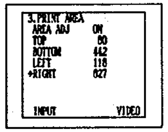

3.PRINT AREA
AREA ADJ ON
→TOP 20
BOTTOM 483
LEFT 28
RIGHT 745
INPUT VIDEO

4. Press SELECT [+] or [−] to move the trim line.


MENU
SUB MENU
- SELECT +
or

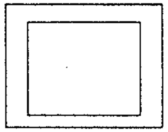

3.PRINT AREA
AREA ADJ ON
→TOP 80
BOTTOM 483
LEFT 28
RIGHT 745
INPUT VIDEO

5. Continue steps 3 and 4 above to place the trim lines around the section of the picture desired for printing.
   - The print area can also be enlarged to a maximum of 496x766 dots.

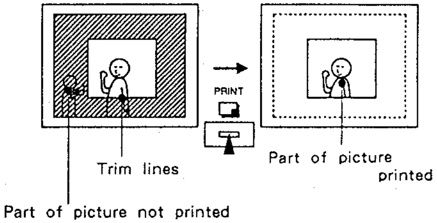

3.PRINT AREA
AREA ADJ ON
TOP 80
BOTTOM 442
LEFT 118
→RIGHT 627
INPUT VIDEO

6. Press DISPLAY.

- Sub − menu goes off.



7. Press PRINT.


PRINT
Trim lines
Part of picture printed
Part of picture not printed

Note : Programming print area will not change the area if multi-mode is on.

To change trim line color, see p. 34.

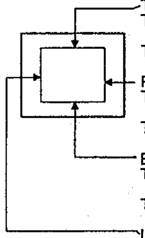
To clear

Specify AREA ADJ OFF in step 2.

- The programmed trim line setting does not change.

Note : If the trim line is toward the edge of the screen it will not appear on some monitors.

To move trim line



TOP
To raise : Press SELECT (−) to decrease the number.
To lower: Press SELECT (+) to increase the number.

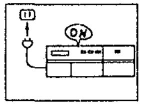
RIGHT
To right : Press SELECT (+) to increase the number.
To left : Press SELECT (−) to decrease the number.

BOTTOM
To raise : Press SELECT (−) to decrease the number.
To lower: Press SELECT (+) to increase the number.

LEFT
To right : Press SELECT (+) to increase the number.
To left : Press SELECT (−) to decrease the number.

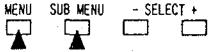
## Options

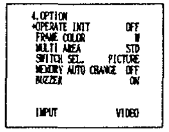
### Auto-power on



Power goes on automatically when the power plug is inserted into an AC outlet no matter whether OPERATE is pressed or not.

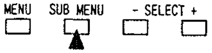
1. Press MENU to move arrow to 4. OPTION. Then press SUB MENU. (See P.23)

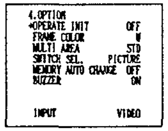




```
4.OPTION
→OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

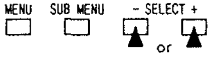
2. Press SUB MENU to move arrow to OPERATE INIT.

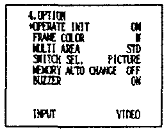




```
4.OPTION
→OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

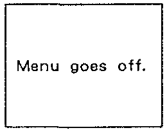
3. Press SELECT [+] or [−] to specify OPERATE INIT ON.





```
4.OPTION
→OPERATE INIT           ON
 FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

4. Press DISPLAY.

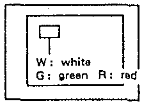


Menu goes off.

To clear

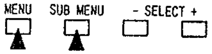
Specify OPERATE INIT OFF in step 3.

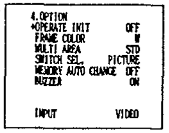
### Frame color



For selecting the color of the frame displayed on the monitor when programming single-frame memory, strobe memory, multiple same-picture printing, 2X zoom print and print area.

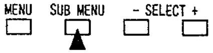
1. Press MENU to move arrow to 4. OPTION. Then press SUB MENU. (See P.23)

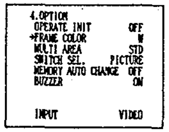




```
4.OPTION
→OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

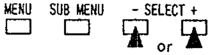
2. Press SUB MENU to move arrow to FRAME COLOR.

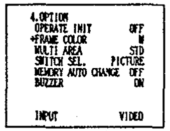




```
4.OPTION
 OPERATE INIT          OFF
→FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

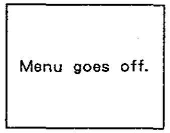
3. Press SELECT [+] or [−] to select the color. W: white G: green R: red





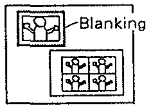
```
4.OPTION
 OPERATE INIT          OFF
→FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

4. Press DISPLAY.



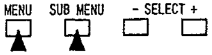
Menu goes off.

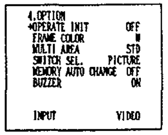
### Multi-area switching



Switches if there is a black line (blanking) surrounding the picture in memory. Use when printing 4 or 16 pictures.

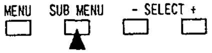
1. Press MENU to move arrow to 4. OPTION. Then press SUB MENU. (See P.23)

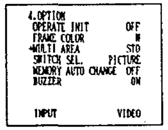




```
4.OPTION
→OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

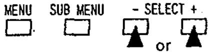
2. Press SUB MENU to move arrow to MULTI AREA.

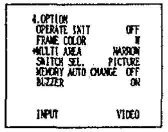




```
4.OPTION
 OPERATE INIT          OFF
 FRAME COLOR             W
→MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

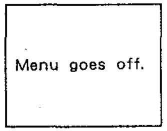
3. Press SELECT [+] or [−] to specify MULTI AREA NARROW.





```
4.OPTION
 OPERATE INIT          OFF
 FRAME COLOR             W
→MULTI AREA         NARROW
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

4. Press DISPLAY.



Menu goes off.

To go back to original settings

Specify MULTI AREA STD in step 3.

If single-frame memory, strobe memory or P-in-P memory are programmed

After switching multi-areas, always make sure the picture is stored again in memory before printing.

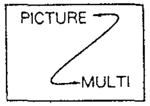
- If the picture is not re-stored, an incorrectly stored picture may be printed around the print picture.

Multiple same-picture printing

No need to store picture again even after multi-area is switched.

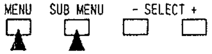
**Note :** Black lines may not completely erase with some input pictures.

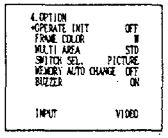
### Switch select



Allows PICTURE to be used as the button for the number of divisions in multi-mode.

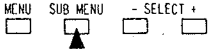
1. Press MENU to move arrow to 4. OPTION. Then press SUB MENU. (See P.23)

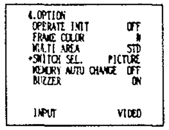




```
4.OPTION
→OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
 SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

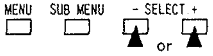
2. Press SUB MENU to move arrow to SWITCH SEL.

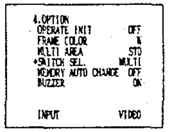




```
4.OPTION
 OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
→SWITCH SEL.       PICTURE
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

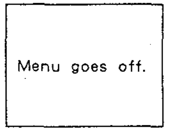
3. Press SELECT [+] or [−] to specify SWITCH SEL MULTI.





```
4.OPTION
 OPERATE INIT          OFF
 FRAME COLOR             W
 MULTI AREA            STD
→SWITCH SEL.         MULTI
 MEMORY AUTO CHANGE    OFF
 BUZZER                 ON

 INPUT               VIDEO
```

4. Press DISPLAY.



Menu goes off.

To go back to original settings

Specify SWITCH SEL PICTURE in step 3.

Operating the PICTURE button during SWITCH SEL MULTI

When SWITCH SEL MULTI is enabled, PICTURE can be used to turn the multi mode on and off and to change the number of pictures. Every press of PICTURE will change modes in this sequence.

(1) Single-frame memory (see p. 28)
OFF→ONE PIX4→ONE PIX16→ONE PIX25

(2) Strobe memory (see p. 29)
OFF→CONT4→CONT16→CONT25

(3) P-in-P memory (see p. 30)
OFF→P in P 1/4→Pin P 1/16

(4) Multiple same-picture printing (see p.31)
OFF→REPEAT4→REPEAT16→REPEAT25→REPEAT2

(5) 2X zoom printing (see p.32)
OFF→2X ZOOM

## Options (cont'd)

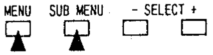
### Auto-memory change (VY-300A only)

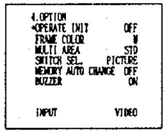
FRAME 1→2→3→4

FIELD1A→1B→2A→2B →3A→3B→4A→4B

Storing a picture in memory automatically causes a switch to the memory of the following number.

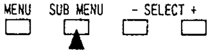
1. Press MENU to move arrow to 4. OPTION. Then press SUB MENU. (See P.23)

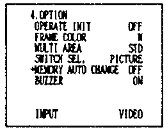




```
4.OPTION
→OPERATE INIT       OFF
 FRAME COLOR          W
 MULTI AREA         STD
 SWITCH SEL.    PICTURE
 MEMORY AUTO CHANGE OFF
 BUZZER              ON

 INPUT            VIDEO
```

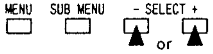
2. Press SUB MENU to move arrow to MEMORY AUTO CHANGE.

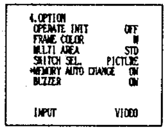




```
4.OPTION
 OPERATE INIT       OFF
 FRAME COLOR          W
 MULTI AREA         STD
 SWITCH SEL.    PICTURE
→MEMORY AUTO CHANGE OFF
 BUZZER              ON

 INPUT            VIDEO
```

3. Press SELECT [+] or [−] to specify MEMORY AUTO CHANGE ON.





```
4.OPTION
 OPERATE INIT       OFF
 FRAME COLOR          W
 MULTI AREA         STD
 SWITCH SEL.    PICTURE
→MEMORY AUTO CHANGE  ON
 BUZZER              ON

 INPUT            VIDEO
```

4. Press DISPLAY.

Menu goes off

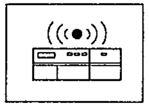
To clear
Specify MEMORY AUTO CHANGE OFF in step 3.

Pressing MEMORY automatically stores the picture in the memory now selected and switches to the memory with the next number. Switching of the memory depends on the selected memory mode (See P.21).

In frame mode,
FRAME 1→2→3→4 (→1)

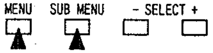
In field mode,
FIELD 1A→1B→2A→2B→3A→3B→4A→4B (→1A)

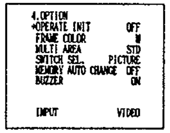
### Electronic tone on/off (VY-300A only)



Swithches on or off the electronic tone that sounds when a malfunction is done or an anomaly occurs.

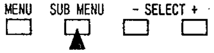
1. Press MENU to move arrow to 4. OPTION. Then press SUB MENU. (See P.23)

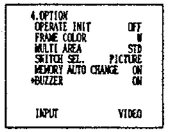




```
4.OPTION
→OPERATE INIT       OFF
 FRAME COLOR          W
 MULTI AREA         STD
 SWITCH SEL.    PICTURE
 MEMORY AUTO CHANGE OFF
 BUZZER              ON

 INPUT            VIDEO
```

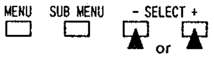
2. Press SUB MENU to move arrow to BUZZER.

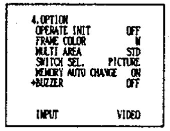




```
4.OPTION
 OPERATE INIT       OFF
 FRAME COLOR          W
 MULTI AREA         STD
 SWITCH SEL.    PICTURE
 MEMORY AUTO CHANGE  ON
→BUZZER              ON

 INPUT            VIDEO
```

3. Press SELECT [+] or [−] tc specify BUZZER OFF.





```
4.OPTION
 OPERATE INIT       OFF
 FRAME COLOR          W
 MULTI AREA         STD
 SWITCH SEL.    PICTURE
 MEMORY AUTO CHANGE  ON
→BUZZER             OFF

 INPUT            VIDEO
```

4. Press DISPLAY.

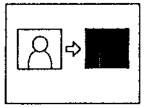
Menu goes off.

To clear
Specify BUZZER ON in step 3.

For types of electronic tones, see p. 41.

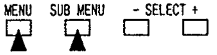
## Clear

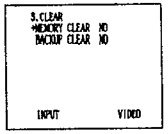
### Clear memory



Deletes stored pictures from memory. Handy function when using a personal computer to store pictures.

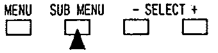
1. Press MENU to move arrow to 5. CLEAR. Then press SUB MENU. (See P.23)

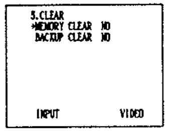




```
5.CLEAR
→MEMORY CLEAR  NO
 BACKUP CLEAR  NO

 INPUT            VIDEO
```

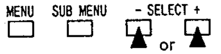
2. Press SUB MENU to move arrow to MEMORY CLEAR.

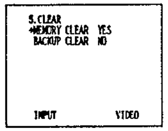




```
5.CLEAR
→MEMORY CLEAR  NO
 BACKUP CLEAR  NO

 INPUT            VIDEO
```

3. Press SELECT [+] or [−] to specify MEMORY CLEAR YES.





```
5.CLEAR
→MEMORY CLEAR  YES
 BACKUP CLEAR  NO

 INPUT            VIDEO
```

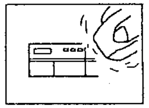
4. Press DISPLAY.

Menu goes off.

Clearing memory
Deletes pictures stored in memory and turns the memory picture black.

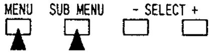
- Clearing causes distortion on the monitor screen.
- Memory cannot be cleared when printing is in progress.

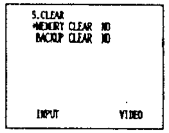
### Clear backup



Cancels programmed function values and restores those programmed at the factory.

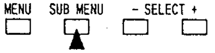
1. Press MENU to move arrow to 5. CLEAR. Then press SUB MENU.(See P. 23)

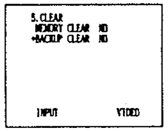




```
5.CLEAR
→MEMORY CLEAR  NO
 BACKUP CLEAR  NO

 INPUT            VIDEO
```

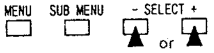
2. Press SUB MENU to move arrow to BACKUP CLEAR.

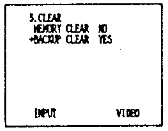




```
5.CLEAR
 MEMORY CLEAR  NO
→BACKUP CLEAR  NO

 INPUT            VIDEO
```

3. Press SELECT [+] or [−] to specify BACKUP CLEAR YES.





```
5.CLEAR
 MEMORY CLEAR  NO
→BACKUP CLEAR  YES

 INPUT            VIDEO
```

4. Press DISPLAY.

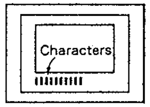
Menu goes off.

**Note :** Use caution with this function because the parameters listed below will be reprogrammed to those set at factory.

(1) Conditions and values programmed in the sub-menu (see p. 23).
(2) Input selection (see p. 16).
(3) Adjusted print picture values. (see p. 42)

# Comment (VY-300A only)

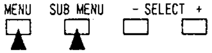
## Comment function

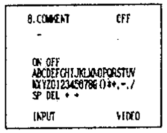

Characters

Added convenience in recording data files and other purposes is provided by this function that allows a maximum of 32 alphanumerics to be entered under the print picture.

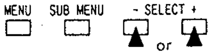
### Entering characters. Entering PRINT No. 1

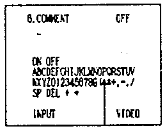
1. Press MENU to move arrow to 6. COMMENT. Then press SUB MENU. (See P.23)


MENU
SUB MENU
- SELECT +


6.COMMENT OFF
-
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

2. Press SELECT [+] or [−] until the character to be entered starts flashing on and off.

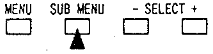

MENU
SUB MENU
- SELECT +
or

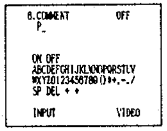

6.COMMENT OFF
-
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

P is flashing

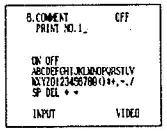
- Every pressing moves the flashing cursor by one character. Holding the buttons will give continuous move.

3. When the character to be entered starts flashing, press SUB MENU.

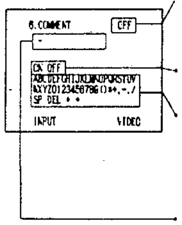

MENU
SUB MENU
- SELECT +


6.COMMENT OFF
P_
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

4. Repeat steps 2 and 3 until all characters have been entered.
   - A maximum of 32 characters can be entered (a space counts as one character).
   - That concludes character input.


6.COMMENT OFF
PRINT NO.1_
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

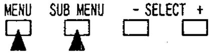
### Description of menu

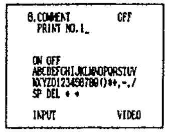

6.COMMENT OFF
-
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

- Comment function on/off
  Off : Comment will not print out.
  On : Comment will print out.
- Specify to print, or not print, the entered comment.
- Character selection area
  Press SUB MENU to enter the character flashing on and off.
  SP : Enters a space.
  DEL : Deletes.
- Display of input characters
  The section showing the characters that have been entered.

### Printing the comment

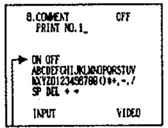
1. Press MENU to move arrow to 6. COMMENT. Then press SUB MENU. (See P.23)


MENU
SUB MENU
- SELECT +


6.COMMENT OFF
PRINT NO.1_
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

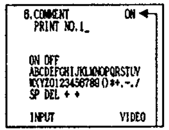
- Displays characters input according to steps on the left.

2. Press SELECT [+] or [−] until ON starts flashing on and off.


6.COMMENT OFF
PRINT NO.1_
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

ON is flashing.

3. Press SUB MENU. 6.COMMENT ON is specified and the comment function operates.
4. Press PRINT.


6.COMMENT ON
PRINT NO.1_
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

Specify ON.

**Note :** Comment will not be printed out during multiple same-picture printing or in the 2 × zoom mode.

Entering spaces

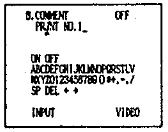
As in step 2 at left, press SELECT [+] or [−] until SP starts flashing on and off. When SP starts flashing, press SUB MENU.

- Spaces cannot be added within already input characters. To add a space, reenter all subsequent characters.

To correct input characters

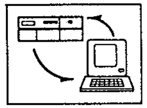
(1) Press SELECT [+] or [−] until "←" starts flashing on and off.
(2) Press SUB MENU until "J" starts flashing on and off.
(3) Press SELECT [+] or [−] until the character to be correctly entered ("I" in this example) starts flashing on and off.
(4) Press SUB MENU.

To correct "J" to "I"


6.COMMENT OFF
PRJNT NO.1_
ON OFF
ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789()*+,-./
SP DEL ← →
INPUT VIDEO

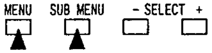
# Initialize interface (VY-300A only)

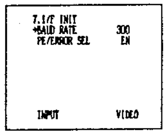
## Programming baud rate



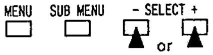
Matches the bit rates of your personal computer and the VY-170A/VY-300A Full-Color Video Printer when connecting them via RS-232C INTERFACE connectors.

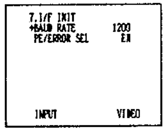
1. Press MENU to move arrow to 7. I/F INT. Then press SUB MENU. (See P.23)


MENU
SUB MENU
- SELECT +


7.I/F INIT
→BAUD RATE 300
PE/ERROR SEL EN
INPUT VIDEO

2. Press SELECT [+] or [−] to specify the required baud rate.


MENU
SUB MENU
- SELECT +
or


7.I/F INIT
→BAUD RATE 1200
PE/ERROR SEL EN
INPUT VIDEO

- Mode changes in the sequence shown below every time SELECT [+] is pressed. Pressing SELECT [−] reverses the sequence.

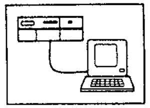
→ 300 → 1200 → 2400 → 4800 ┐

3. Press DISPLAY.

Menu goes off.

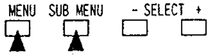
**Note :** Check your personal computer's baud rate. If the computer's and video printer's baud rates are different, they will not operate correctly together. Refer to the separate interface manual.

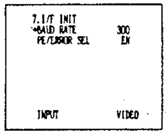
## Printer error output



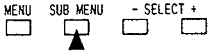
When the video printer is in error status, this function determines whether the printer will send the error output to the personal computer via the PARALLEL INTERFACE connector.

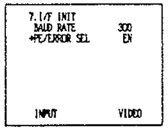
1. Press MENU to move arrow to 7. I/F INT. Then press SUB MENU. (See P.23)


MENU
SUB MENU
- SELECT +

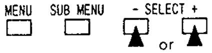

7.I/F INIT
→BAUD RATE 300
PE/ERROR SEL EN
INPUT VIDEO

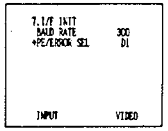
2. Press SUB MENU to move arrow to PE/ERROR SEL.


MENU
SUB MENU
- SELECT +


7.I/F INIT
BAUD RATE 300
→PE/ERROR SEL EN
INPUT VIDEO

3. Press SELECT [+] or [−] to specify PE/ERROR SEL DI.


MENU
SUB MENU
- SELECT +
or


7.I/F INIT
BAUD RATE 300
→PE/ERROR SEL DI
INPUT VIDEO

PE/ERROR SEL DI for no error output.
PE/ERROR SEL EN for error output.

4. Press DISPLAY.

Menu goes off.

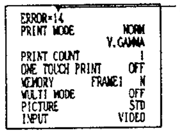
Refer to the separate interface manual.

To restore original settings

Specify PE/ERROR SEL EN in step 3.

## Paper jam

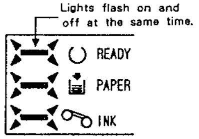
If print paper or ink paper jams, the READY, PAPER and INK lamps all flash on and off at the same time and an error code displays on the monitor.



```
ERROR=14
PRINT MODE          NORM
                 V.GAMMA
PRINT COUNT            1
ONE TOUCH PRINT      OFF
MEMORY       FRAME1    N
MULTI MODE           OFF
PICTURE              STD
INPUT              VIDEO
```

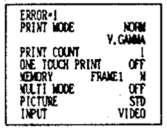
Error code

MONITOR



Check the error code and take proper measures.

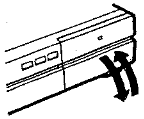
### Error code1, 2 4, 5 or 8.



```
ERROR=1
PRINT MODE          NORM
                 V.GAMMA
PRINT COUNT            1
ONE TOUCH PRINT      OFF
MEMORY       FRAME1    N
MULTI MODE           OFF
PICTURE              STD
INPUT              VIDEO
```

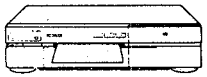
**Open and close the cartridge cover.**

- No need to take out print cartridge.



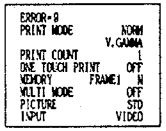
- Paper discharges automatically only when paper-jams.

If the discharged paper has nothing printed on it, it may be used again.



**Note :** Printing can proceed if the READY lamp is lit.
If the READY lamp is not lit, open and close the cartridge cover again.

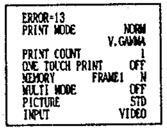
### Error code 9 or 14



```
ERROR=9
PRINT MODE          NORM
                 V.GAMMA
PRINT COUNT            1
ONE TOUCH PRINT      OFF
MEMORY       FRAME1    N
MULTI MODE           OFF
PICTURE              STD
INPUT              VIDEO
```

Get in touch with the sales outlet where you purchased the VY-170A/VY-300A Full-Color Video Printer because a specialized repairperson is needed.
If you attempt to repair the malfunction yourself, it could result in internal damage to the machine.

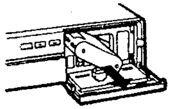
### Error code 13



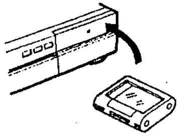
```
ERROR=13
PRINT MODE          NORM
                 V.GAMMA
PRINT COUNT            1
ONE TOUCH PRINT      OFF
MEMORY       FRAME1    N
MULTI MODE           OFF
PICTURE              STD
INPUT              VIDEO
```

Paper did not feed into the print section.

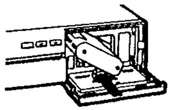
1. Open cartridge cover and remove print cartridge.



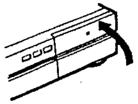
2. Close cartridge cover and wait until flashing READY lamp goes off.



3. When only the INK lamp is flashing, reinsert print cartridge.

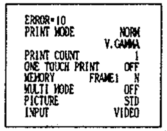


4. Close cartridge door.



**Note :** If READY lamp is lit, printing can proceed.

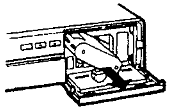
### Error code 10



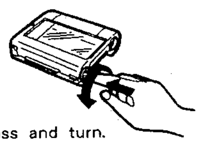
```
ERROR=10
PRINT MODE          NORM
                 V.GAMMA
PRINT COUNT            1
ONE TOUCH PRINT      OFF
MEMORY       FRAME1    N
MULTI MODE           OFF
PICTURE              STD
INPUT              VIDEO
```

Slack in print cartridge ink paper.

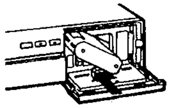
1. Open cartridge door and remove print cartridge.



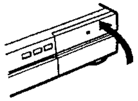
2. Check to make sure there is no slack in the print cartridge ink paper.
   - If the paper is slack, remove the slack as shown in the diagram.



3. Reinsert print cartridge.

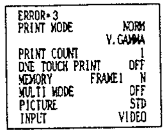


4. Close cartridge door.



**Note :** If READY lamp is lighted, print can proceed.

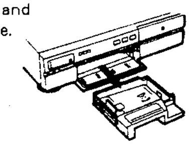
### Error code 3



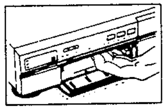
```
ERROR=3
PRINT MODE          NORM
                 V.GAMMA
PRINT COUNT            1
ONE TOUCH PRINT      OFF
MEMORY       FRAME1    N
MULTI MODE           OFF
PICTURE              STD
INPUT              VIDEO
```

Print paper jammed in paper discharge slot.

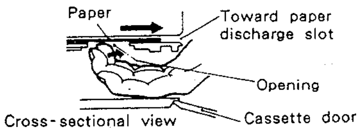
1. Open cassette door and remove paper cassette.



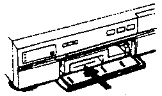
2. Pull out jammed paper by hand.
   - Insert finger into paper cassette compartment as shown in the diagram to pull the jammed paper through the upper inside opening and withdraw it from the discharge slot.



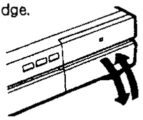
**Caution :** Don't touch anything other than the opening because of the likelihood of causing a malfunction.



3. Replace the paper cassette.



4. Close the cartridge door.
   - There is no need to remove or replace the print cartridge.



**Note :** If READY lamp is lighted, print can proceed.

V01177

ITACHI

# SERVICE MANUAL

TK

No.3728E

# VY-170 (A),(E)
# VY-300 (A),(E)

## SUPPLEMENT

**Note:**
This manual is a supplement to the VY-170(A),(E)/VY-300(A),(E) Technical Data (No. 3693E).
Since this manual shows only changes and corrections, use it together with the above Technical Data manual.

**MANUALS RELATED TO THE VY-170(A),(E)/300(A),(E)**

| Name of Manual | Language | Manual No. | Chapters included |
|---|---|---|---|
| Technical Data | English | 3693E | Chapters 1 - 8 |
| Supplement | English | 3728E | Chapters 1 and 4 - 8 |

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

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# COLOR VIDEO PRINTER

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January 1993 TOKAI Consumer Electronics Division

## SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

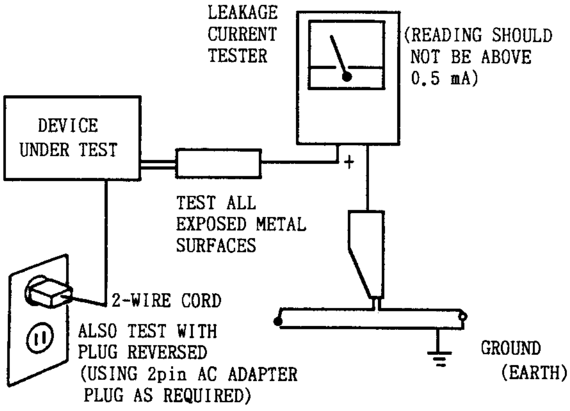
1. When replacing a chassis in the instrument, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment covers/shields, isolation resistors/capacitors, etc.
2. When service is required, observe the original lead-dress. Extra precautions should be taken to assure correct lead dress in the high voltage circuit.
3. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacturer's. Furthermore, where a short-circuit has occurred, replace those components that indicate evidence of overheating.
4. Before returning an instrument to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become defective or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.

### Leakage Current Cold Check

With the AC plug removed from the power source (America: AC120V, 60Hz / Europe: AC220V, 50Hz), place a jumper across the two plug prongs.
Turn the AC power switch on. Using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to exposed metal parts (screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a resistor reading more than 4 Mohm-America / 20 Mohm-Europe. Any resistor value less than 4 Mohm-America / 20 Mohm-Europe indicates an abnormality which requires corrective action.
Exposed metal parts not having a return path to the chassis will indicate an open circuit.

### Leakage Current Hot Check

Plug the AC line cord directly into an outlet (America : AC120V, 60Hz / Europe : AC220V, 50Hz). (Do not use an isolation transformer for this check, and do not connect the ground plug of the 3 wires AC line cord to the earth.) Turn the AC power switch on. Using a "Leakage Current Tester", measure for current from all exposed metal parts of the cabinet ( screwheads, metal overlays, control shaft, etc.), particularly an exposed metal part having a return path to the chassis, to a known ground (earth) (water pipe, conduit, etc.). Any current measured must not exceed 0.5 mA.


LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5 mA)
DEVICE UNDER TEST
+
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING 2pin AC ADAPTER PLUG AS REQUIRED)
GROUND (EARTH)

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE UNIT TO THE CUSTOMER.

### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for a higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified by marking with a ⚠ on the schematics and the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards. Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies for, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

## COMPARISON WITH EXISTING MODELS [For PAL]

| Item | | VY–170(E) | VY–150E | VY–300(E) |
|---|---|---|---|---|
| Principle | | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink |
| Gradations (frame picture) | | 256 | 64 | 256 |
| Dot structure (V x H) | | 560 x 720 dots<br>576 x 766 dots (Max.) | 563 x 640 dots | 560 x 720 dots<br>576 x 766 dots (Max.) |
| Dot density | | Ver. 7.1 dots/mm<br>Hor. 7.0 dots/mm | Ver. 6.7 dots/mm<br>Hor. 5.8 dots/mm | Ver. 7.1 dots/mm<br>Hor. 7.0 dots/mm |
| Built-in memory | | 8-bit RGB, 1 frame | 6-bit Y/color-difference | 8-bit RGB, 4 frames |
| Speed | | Appr. 58 sec/print | Appr. 110 sec/print | Appr. 58 sec/print |
| Ink paper | | VY-SS50,<br>VY-SC30W | VY-SS50,<br>VY-SC30W | VY-SS50,<br>VY-SC30W |
| I/O terminals | Video | O (BNC terminals) | O (US pins)<br>(EURO Jack) | O (BNC terminals) |
| | Y/C | O (S terminals) | O (S terminals) | O (S terminals) |
| | RGB BNC | O (BNC terminals) | O BNC terminals<br>(Input only) | O (BNC terminals) |
| | RGB analog | X | X | X |
| | RGB TTL | X | X | X |
| Auto scan | | X | X | X |
| Interface | | X | X | Parallel, RS-232C |
| Divided print | | O (2/4/16/25) | X | O (2/4/16/25) |
| Double-enlarged print | | O | X | O |
| Black-and-white print | | O | X | O |
| Character insertion print | | X | X | O |
| Gamma select video/linear | | O | X | O |
| Variable print area | | O | X | O |
| Remote control (wired) | | O | X | O |
| Copies | | Max. 50<br>(CONTINUE mode available) | Max. 3<br>(CONTINUE mode available) | Max. 50<br>(CONTINUE mode available) |
| Data/title superimpose | | X | O | X |
| Print counter | | OSD | Mechanical | OSD |
| Printer control terminal | | X | X | X |

## COMPARISON WITH EXISTING MODELS [For NTSC]

| Item | | VY–170(A) | VY–150A | VY–300(A) | VY-200A |
|---|---|---|---|---|---|
| Principle | | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink | Thermal line printer with sublimating ink |
| Gradations (frame picture) | | 256 | 64 | 256 | 128 |
| Dot structure (V x H) | | 464 x 720 dots<br>496 x 766 dots (Max.) | 466 x 512 dots | 464 x 720 dots<br>496 x 766 dots (Max.) | 464 x 616 dots |
| Dot density | | Ver. 6 dots/mm<br>Hor. 7.2 dots/mm | Ver. 6 dots/mm<br>Hor. 6 dots/mm | Ver. 6 dots/mm<br>Hor. 7.2 dots/mm | Ver. 6 dots/mm<br>Hor. 6 dots/mm |
| Built-in memory | | 8-bit RGB<br>1 frame | 6-bit Y/color-difference | 8-bit RGB<br>4 frames | 7-bit RGB<br>1 frame |
| Speed | | Appr. 58 sec/ print | Appr. 100 sec/ print | Appr. 58 sec/ print | Appr. 90 sec/ print |
| Ink paper | | VY-SS50, VY-SS50M, VY-SC30W, VY-SN30 type | VY-SS50, VY-SC30W, VY-SN30 type | VY-SS50, VY-SS50M, VY-SC30W, VY-SN30 type | VY-S, VY-SX, VY-SX-M type |
| I/O terminals | Video | O (BNC terminals) | O (US pins) (Front x 1/Rear x 1) | O (BNC terminals) | O (BNC terminals) |
| | Y/C | O (S terminals) | O (S terminals) (Front x 1/Rear x 1) | O (S terminals) | O (S terminals) |
| | RGB BNC | O (BNC terminals) | O BNC terminals (Input only) | O (BNC terminals) | O (BNC terminals) |
| | RGB analog | X | X | X | O (D-SUB15) |
| | RGB TTL | X | X | X | O (D-SUB9) |
| Auto scan | | X | X | X | O |
| Interface | | X | X | Parallel<br>RS-232C (D-SUB9) | Parallel<br>RS-232C (25P) |
| Divided print | | O (2/4/16/25) | X | O (2/4/16/25) | O (4/16/25) |
| Double-enlarged print | | O | X | O | X |
| Black-and-white print | | O | X | O | O |
| Character insertion print | | X | X | O | X |
| Gamma select video/linear | | O | X | O | O |
| Variable print area | | O | X | O | O |
| Remote control (wired) | | O | O | O | O |
| Copies | | Max. 50 (CONTINUE mode available) | Max. 3 (CONTINUE mode available) | Max. 50 (CONTINUE mode available) | Max. 9 |
| Data/title superimpose | | X | O | X | X |
| Print counter | | OSD | Mechanical | OSD | Mechanical |
| Printer control terminal | | X | O | X | X |

# Specifications

| Model | | VY-300(E) | VY-170(E) |
|---|---|---|---|
| Recording method | | Sublimable dye thermal transfer line printing | |
| Print quality | | 256-gradation frame picture, 16,770,000 colours | |
| Number of print pixels | | 560 × 720 dots (standard size)<br>576* × 766 dots (maximum size) | |
| Picture memory | | RGB frame<br>4-frame (8-field) memory | RGB frame<br>1-frame (2-field) memory |
| Print time | | About 58 seconds per picture (standard print) | |
| Print media | | Ink: cartridge type (special)<br>3-colour plane sequential printing (yellow, magenta, cyan)<br>Recording paper: 100 × 140mm cut paper<br>Print size: 79 × 103mm (standard)<br>81.3 × 109.5mm (maximum) | |
| Input jacks | | Video input: BNC jack 1.0Vp-p 75 Ω<br>Y/C input: S jack screw lock type Y (luma signal) 1.0Vp-p 75 Ω<br>C (chroma signal) 0.3Vp-p 75 Ω<br>RGB input: BNC jack RGB 0.7Vp-p 75 Ω positive polarity.<br>C.Sync 0.3-4.0Vp-p 75 Ω positive/negative polarity | |
| Output jacks | | Video output: BNC jacks 1.0Vp-p 75 Ω<br>Y/C output: S jack screw lock type Y (luma signal) 1.0Vp-p 75 Ω<br>C (chroma signal) 0.3Vp-p 75 Ω<br>RGB output: BNC jack RGB 0.7Vp-p 75 Ω positive polarity.<br>C.Sync 0.3-1.2Vp-p 75 Ω positive/negative polarity | |
| Interface | | Parallel interface<br>(Centronix ® standard)<br>36-pin Amphenol plug<br>RS-232C interface standard D-SUB9 | –<br>– |
| Additional functions | Mirror reverse printing | ○ | |
| | Negative/positive reverse printing | ○ | |
| | Comment function | ○ | – |
| | Single-frame memory | 4, 16 and 25 pictures | |
| | Storobe memory | 1/25, 1/12, 1/4 and 1/2 second | |
| | Multiple same picture printing | 2, 4, 16 and 25 pictures | |
| | P-in-P memory | ○ | |
| | Gamma characteristics | Two types (video and linear) | |
| | Remote controller | Wired (Provided) | Wired (Option) VY – RM170 |
| | 2X zoom | ○ | |
| | B/W print | ○ | |
| Input adjustment | | Colour, contrast, brightness | |
| Permissible operating temperatures | | 5℃~35℃ | |
| Permissible relative humidity | | 20%~75% | |
| Power input | | AC 220-240V 50/60Hz 0.8A | |
| Outside dimensions | | 17-1/8″ (W) × 4-3/8″ (H) × 14-3/8″ (D)<br>435(W) × 111(H) × 365(D)mm | |
| Weight | | 8.1kg | 8.0kg |
| Part provided | | Mains lead •••••••••••••••••••••••••••••• 1<br>Video print kit box (for 30 sheets) ••••• 1<br>Remote controller VY – RM170 ••••• 1 | Mains lead •••••••••••••••••••••••••••••• 1<br>Video print kit box (for 30 sheets) ••••• 1 |

* 560 dots with comment on. (VY-300 only)

- These specifications and the external appearance of the units, may be changed without notice in order to make improvements.

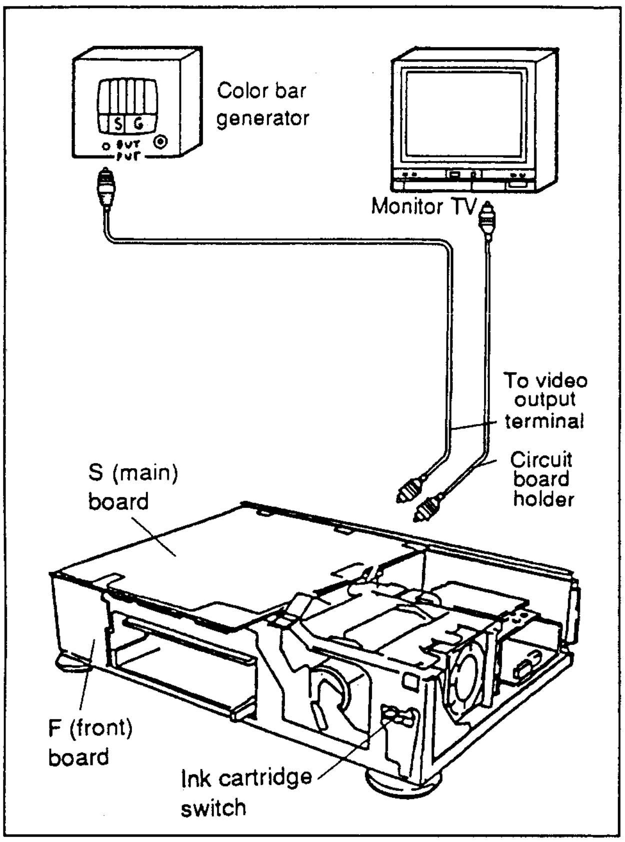
# ADJUSTMENT OF ELECTRICAL CIRCUITS

- **Measuring instruments needed for adjustment**
  1) Dual-beam oscilloscope
     - Bandwidth: 10 MHz or more
     - Probe: 10 to 1
  2) Color bar generator
  3) Frequency counter
  4) Vectorscope
  5) DC voltmeter
  6) Monitor TV
- **Connections of the measuring instruments**
  Connect the measuring instruments normally as shown here unless otherwise specified.
  1) Connect the color bar generator to the video input terminal (rear panel) of the printer.
  2) Connect the monitor TV to the video output terminal of the printer.
- **Servicing positions**
  Make preparation as follows.
  1) Remove the top cover,
  2) Make adjustment from the pattern sides of the circuit boards.
- **Setting up**
  Set up the printer as follows.
  1) POWER: ON
  2) Press S902 (DISPLAY) and make sure the monitor TV displays information as follows.

| | |
|---|---|
| PRINT MODE | NORM |
| | V.GAMMA |
| PRINT COUNT | 1 |
| ONE TOUCH PRINT | OFF |
| MEMORY FRAME 1 | N |
| MULTI MODE | OFF |
| PICTURE | STD |
| INPUT | VIDEO |

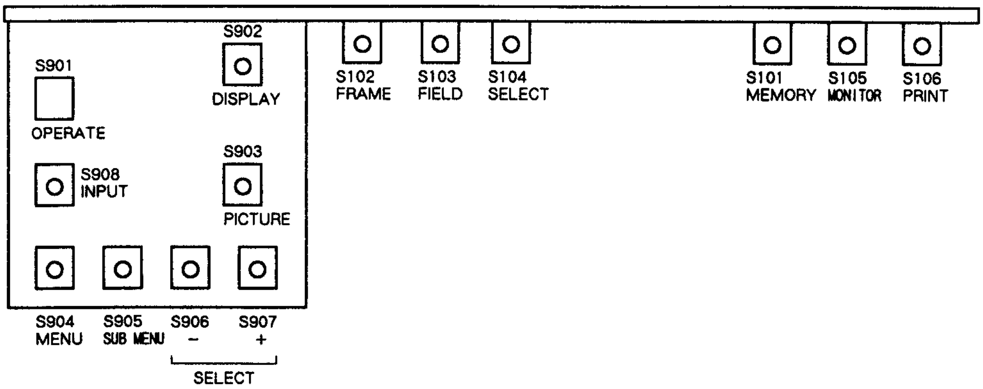
If some items vary, display MENU and set up as shown above.

3) Ink cassette: Removed
4) Warm up: About 1 minute

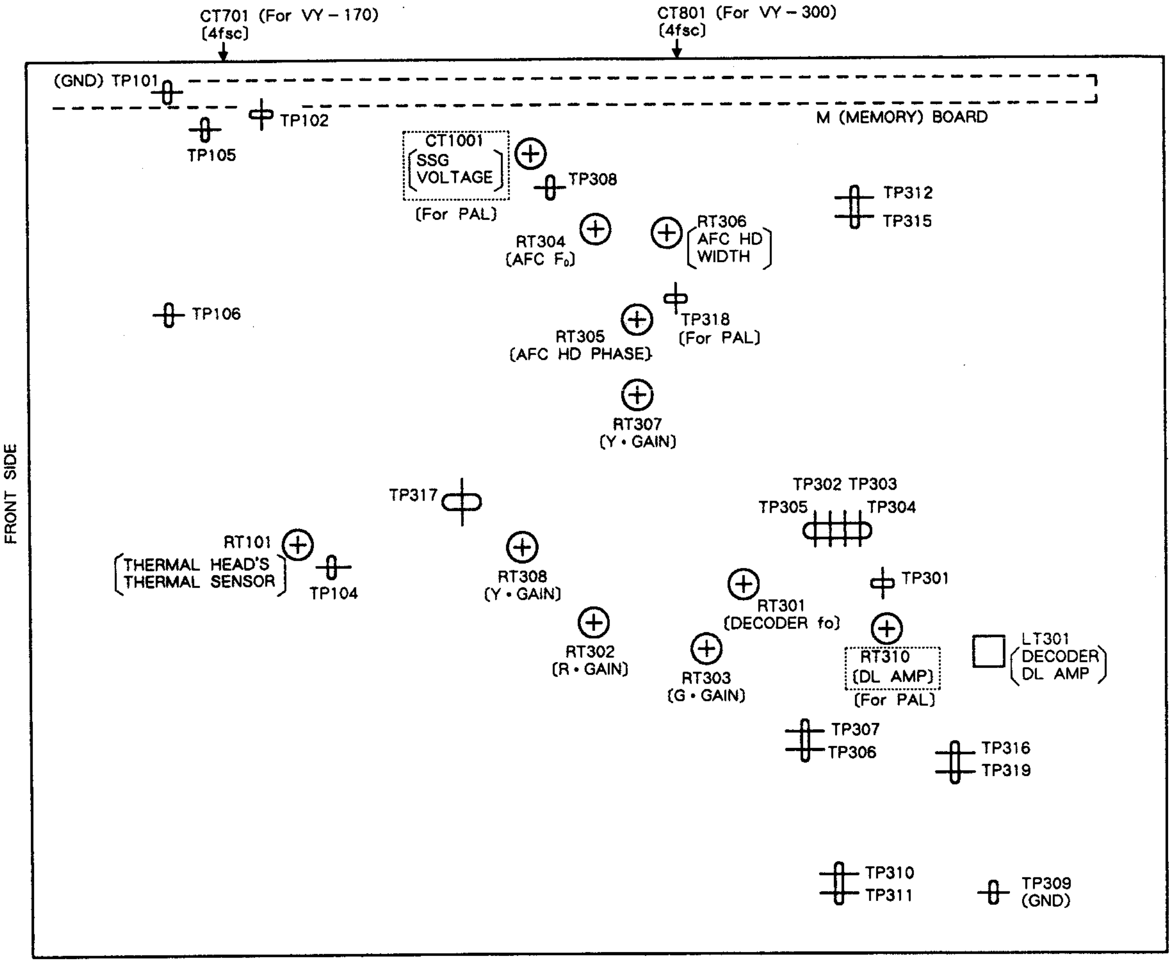

Color bar generator
SG
OUT PUT
Monitor TV
To video output terminal
Circuit board holder
S (main) board
F (front) board
Ink cartridge switch

5) Settings of rear panel switches
   S1101 SYNC 75Ω/Hi switch: 75Ω
   S1102 SYNC NEGA/POSI switch: NEGA
   S1103 RGB 75Ω/Hi switch: 75Ω
   * S1104 Front control switch: ON
   * S1104 is provided only with the VY-300.

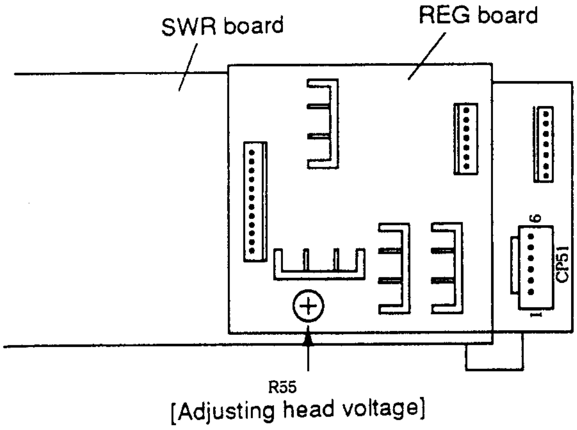
- **Layout of parts of circuit boards**
  1) F (front) board [Components side]


S902
DISPLAY
S901
OPERATE
S908
INPUT
S903
PICTURE
S904
MENU
S905
SUB MENU
S906
−
S907
+
SELECT
S102
FRAME
S103
FIELD
S104
SELECT
S101
MEMORY
S105
MONITOR
S106
PRINT

### 2) S (main) board [Solder side]


CT701 (For VY-170) (4fsc)
CT801 (For VY-300) (4fsc)
(GND) TP101
TP102
TP105
M (MEMORY) BOARD
CT1001 (SSG VOLTAGE) (For PAL)
TP308
TP312
TP315
RT304 (AFC F0)
RT306 (AFC HD WIDTH)
TP106
TP318 (For PAL)
RT305 (AFC HD PHASE)
RT307 (Y • GAIN)
FRONT SIDE
TP317
TP302 TP303
TP305
TP304
RT101 (THERMAL HEAD'S THERMAL SENSOR)
TP104
RT308 (Y • GAIN)
RT301 (DECODER fo)
TP301
RT302 (R • GAIN)
RT303 (G • GAIN)
RT310 (DL AMP) (For PAL)
LT301 (DECODER DL AMP)
TP307
TP306
TP316
TP319
TP310
TP311
TP309 (GND)

### 3) REG (regulator) board [Components side]

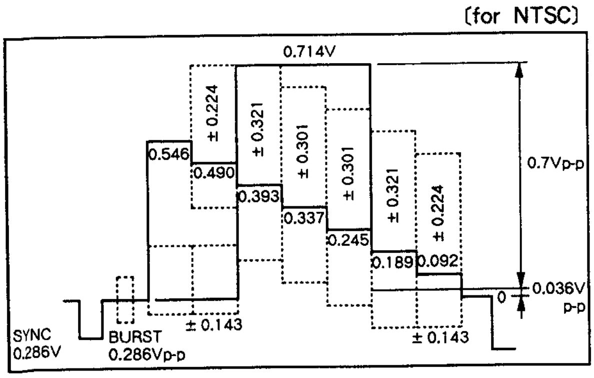

SWR board
REG board
CP51
6
1
R55
[Adjusting head voltage]

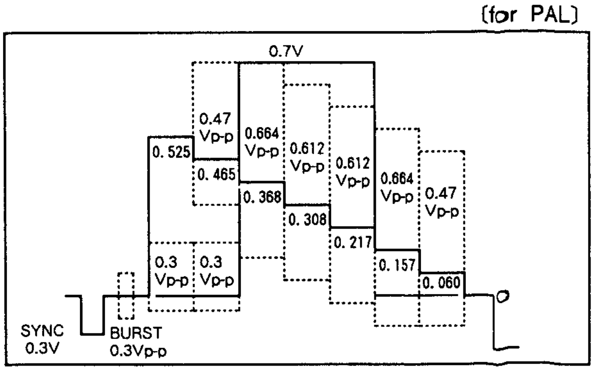
**Setting the reference signal**

The video signal supplied from the color bar generator will be used as the reference signal. Adjust the output level of the oscilloscope to put the video output signal within the required range.

[Setting the luminance component]
Connect the color bar generator output directly to the oscilloscope and adjust the signal level as shown below (terminated with 75Ω). (If no termination resistor is used, double the signal level.)

[Setting the chroma components]
Connect the color bar generator output to the vectorscope and adjust the phase and amplitude of the burst and chroma signals properly.
(Initialize the vectorscope as follows.
For amplitude, CAL: OFF
For phase, burst: 180°C)

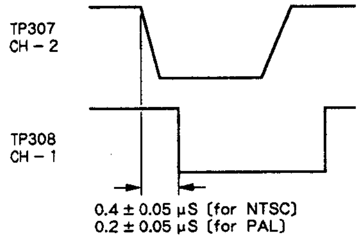
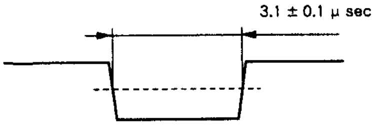

(for NTSC)
0.714V
0.7Vp-p
0.546
0.490
0.393
0.337
0.245
0.189
0.092
0.036V p-p
0
±0.224
±0.321
±0.301
±0.301
±0.321
±0.224
±0.143
±0.143
SYNC 0.286V
BURST 0.286Vp-p


(for PAL)
0.7V
0.47 Vp-p
0.664 Vp-p
0.612 Vp-p
0.612 Vp-p
0.664 Vp-p
0.47 Vp-p
0.525
0.465
0.368
0.308
0.217
0.157
0.060
0
0.3 Vp-p
0.3 Vp-p
SYNC 0.3V
BURST 0.3Vp-p

## 1. Adjustments (Make adjustment in the order described below.)

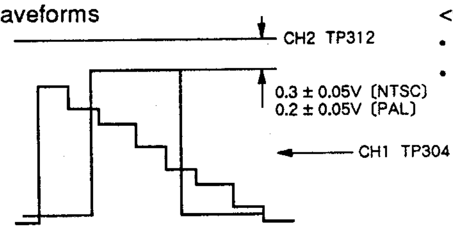
**• Initialization**

1) Short TP105 and TP106 on the S (main) board.
2) Depress S904 (MENU switch) on the F (front) board --> INIT MENU appears.
3) Press S904 (MENU switch) to set the cursor to "INIT ADJ".
4) Depress S905 (SUB MENU switch) on the F (front) board. --> INIT ADJ screen appears (make sure the value is +32).

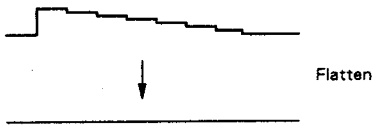
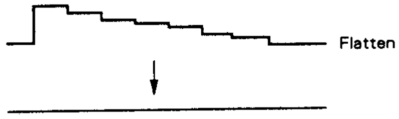
| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 0 | Thermal head's thermal sensor initialization | • Apply no signal | • Monitor screen (OSD) | • RT101 (S-board) | 1) Keeping S105 (MONITOR switch) on the S (main) board pressed, press S902 (DISPLAY switch) on the F (front) board. --> OSD indication (Dα) appears on the monitor screen.<br>2) Short TP104 and TP101 (GND).<br>3) Turn RT101 until OSD indication "D10" changes to "D9".<br>4) Remove the shorting between TP104 and TP101.<br>5) Press S902 (DISPLAY switch) on the F (front) board to turn off OSD indication. |
| 1 | AFC Fo | • Apply no signal. | • TP318 [PAL]<br>• TP308 [NTSC] (S-board) | • RT304 (S-board) | 1) Connect the frequency counter to TP318 [PAL] or TP308 [NTSC].<br>2) Adjust RT304 so that the frequency counter reads 15,600±20 Hz. |
| 2 | AFC HD phase | • Apply the full color bar signal. | • CH-1: TP308 (S-board)<br>• CH-2: TP307 (S-board) | • RT305 | 1) Connect the oscilloscope to TP308 and TP307.<br>2) Set the phase from the fall of the waveform at TP307 to the fall at TP308<br>to 0.2 ±0.05 µs. --> [for PAL]<br>to 0.4 ±0.05 µs. --> [for NTSC] |
| | Waveforms<br> TP307<br>CH – 2<br>TP308<br>CH – 1<br>0.4 ± 0.05 µS (for NTSC)<br>0.2 ± 0.05 µS (for PAL) | | | <Oscilloscope setting><br>• Trigger: TP308 (S-board)<br>• CH-1: 2 V/div.<br>• CH-2: 0.2 V/div.<br>0.1 µsec/div. | |
| 3 | AFC HD width | • Apply the full color bar signal. | • TP308 (S-board) | • RT306 (S-board) | 1) Connect the oscilloscope to TP308.<br>2) Adjust RT306 so that the HD pulse width becomes 3.1±0.1 µs. |
| | Waveform<br> | | | <Oscilloscope setting><br>• Trigger: Self-trigger<br>• Range: 2 V/div., 1 µs/div. | |

- **Setting Input mode**

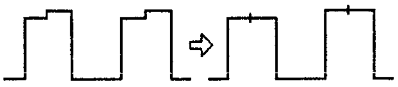
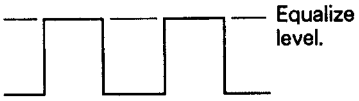
1) Press S908 (INPUT switch) on the F (front) board and select "VIDEO".

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">4</td><td>Brightness</td><td>• Apply the half color bar (black & white) signal.</td><td>• CH-1: TP315<br>• CH-2: TP305<br>(S-board)</td><td>• S906<br>[–] button<br>• S907<br>[+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "BRIGHT".<br>2) Measure DC level at TP315.<br>3) Match the DC level at TP305 with that at TP315 using S906 [– switch] and S907 [+ switch] (error: ±0.05 V).</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td rowspan="2">5</td><td>Contrast</td><td>• Apply the black & white half color bar signal.</td><td>• CH-1: TP304<br>• CH-2: TP312<br>(S-board)</td><td>• S906<br>[–] button<br>• S907<br>[+] button</td><td rowspan="2">1) Press S905 (SUB MENU switch) and select "CONTRAST".<br>2) Align the CH-1 and CH-2 DC levels (in the GND range).<br>3) Reduce the difference between the 100% white peak level at TP304 and the DC level at TP312 within 0.3 ±0.05 V [NTSC]/0.2 ±0.05 V [PAL] using S906 [– switch] and S907 [+ switch].</td></tr>
<tr><td colspan="4">Waveforms<br>

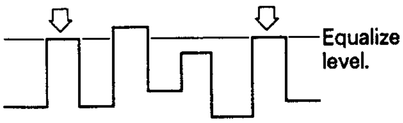
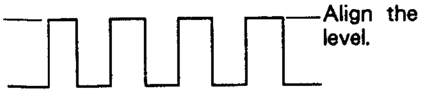
CH2 TP312<br>0.3 ± 0.05V [NTSC]<br>0.2 ± 0.05V [PAL]<br>CH1 TP304

<br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 0.5 V/div.<br>5 µs/div.</td></tr>
<tr><td rowspan="2">6</td><td>G gain</td><td>• Apply the full color bar signal (black & white).</td><td>• CH-1: TP304<br>• CH-2: TP303<br>(S-board)</td><td>• RT303<br>(S-board)</td><td rowspan="2">1) Set CH-2 "INV" and ADD mode.<br>2) Flatten the waveform.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• CH-1: 20 mV/div.<br>CH-2: 20 mV/div.<br>10 µs/div.</td></tr>
<tr><td rowspan="2">7</td><td>R gain</td><td>• Apply the full color bar signal (black & white).</td><td>• CH-1: TP304<br>• CH-2: TP302<br>(S-board)</td><td>• RT302<br>(S-board)</td><td rowspan="2">1) Set CH-2 "INV" and ADD mode.<br>2) Flatten the waveform.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• CH-1: 20 mV/div.<br>CH-2: 20 mV/div.<br>10 µs/div.</td></tr>
<tr><td rowspan="2">8</td><td>Decoder f0</td><td>• Apply no signal.</td><td>• TP301<br>(S-board)</td><td>• RT301<br>(S-board)</td><td rowspan="2">1) Short TP310 and TP311.<br>2) Connect a frequency counter to TP301.<br>3) Adjust RT301 so that the frequency counter reads<br>4,433,618 ±30 Hz [for PAL].<br>3,579,545 ±30 Hz [for NTSC].<br>4) Remove the shorting.</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td rowspan="2">9</td><td>4fsc</td><td>• Apply the full color bar signal.</td><td>• TP102<br>(S-board)</td><td>• CT701<br>• CT801<br>(Note-1)</td><td rowspan="2">1) Connect a frequency counter to TP102.<br>2) Adjust CT701 or CT801 so that the frequency counter reads<br>17,734,600 + 30/–10 Hz [for PAL].<br>14,318,300 + 30/–10 Hz [for NTSC].</td></tr>
<tr><td colspan="4">(Note-1)<br>The adjustment points are different for the VY-170 and VY-300.<br>VY-170: CT701 (M1-board)<br>VY-300: CT801 (M2-board)</td></tr>
</table>

[PAL model only]

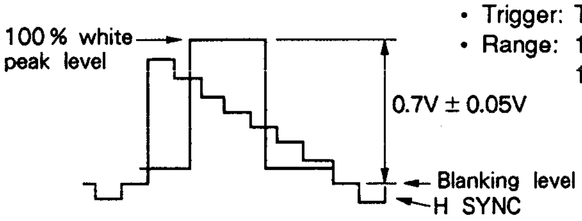
| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 10 | Decoder DL Amp | • Apply the full color bar signal. | • TP302 (S-board) | • LT301<br>• RT310 (S-board) | 1) Adjust LT301 and RT310 to flatten the peaks of the R signal. |
| | Waveforms<br> | | | <Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div. | |
| 11 | Colour | • Apply the full colour bar signal. | • TP302 (S-board) | • S906 [–] button<br>• S907 [+] button<br>• RT310 (S-board) | 1) Press S905 (SUB MENU switch) and select "COLOR".<br>2) Set the COLOR level to "+32".<br>3) Short TP317 and TP101 (GND).<br>4) Equalize level at both ends of the waveform using S906 and S907.<br>5) Equalize peak level of the waveform using RT310.<br>6) Remove the shorting. |
| | Waveforms<br><br> | | | <Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div. | |

[NTSC model only]

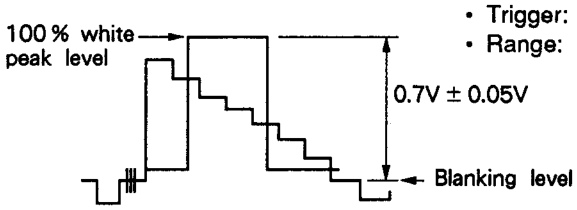
| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 10 | Color | • Apply the full color bar signal. | • TP304 | • S906 [–] button<br>•S907 [+] button | 1) Press S905 (SUB MENU switch) and select "COLOR".<br>2) Short TP317 and TP101 (GND).<br>3) Equalize level at both ends of the waveform using S906 [– switch] and S907 [+ switch]. |
| | Waveforms<br><br> | | | <Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div. | |
| 11 | Tint | • Apply the full color bar signal. | • TP304 | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "TINT".<br>2) Short TP317 and TP101 (GND).<br>3) Adjust S906 and S907 so all the levels of the waveforms are aligned. |
| | Waveforms<br><br> | | | <Oscilloscope setting><br>• Trigger: TP308<br>• Range: 50 mV/div.<br>5 µs/div. | |

- **Setting mode**

1) Press S105 (MONITOR) on the S (main) board and make sure the lamp of the button is out.

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">12</td><td>Y gain (Yc-Y)</td><td>• Apply the half color bar signal (black & white).</td><td>• TP316 (S-board)</td><td>• RT307 (S-board)</td><td rowspan="2">1) Connect the oscilloscope to TP316.<br>2) Adjust the 100% white peak level at 0.7 ± 0.05 Vp-p above the blanking level.</td></tr>
<tr><td colspan="4">Waveforms<br>

100 % white peak level<br>0.7V ± 0.05V<br>Blanking level<br>H SYNC

<br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 10 mV/div.<br>10 µs/div.</td></tr>
<tr><td rowspan="2">13</td><td>Y gain (video output)</td><td>• Apply the half color bar signal (black & white).</td><td>• Video output terminal (terminated with 75Ω)</td><td>• RT308 (S-board)</td><td rowspan="2">1) Connect the oscilloscope to the video output terminal.<br>2) Adjust the 100% white peak level at 0.7 ± 0.05 Vp-p above the blanking level.<br>✻ Turn RT308 fully counterclockwise, then turn it clockwise for adjustment.</td></tr>
<tr><td colspan="4">Waveforms<br> <br><Oscilloscope setting><br>• Trigger: TP308<br>• Range: 10 mV/div.<br>10 µs/div.</td></tr>
</table>

[PAL model only]

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">14</td><td>SSG voltage</td><td>• Apply the half color bar signal (black & white)</td><td>• TP103 (S-board)</td><td>• CT1001 (SSG-board)</td><td rowspan="2">1) Connect the oscilloscope to TP1 03.<br>2) Set the DC level at TP103 to 4±0.2 V.</td></tr>
<tr><td colspan="4"></td></tr>
</table>

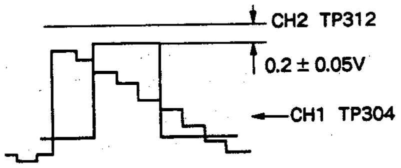
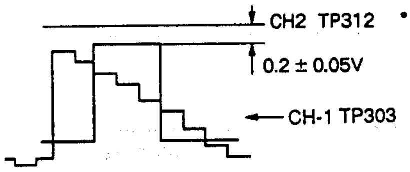
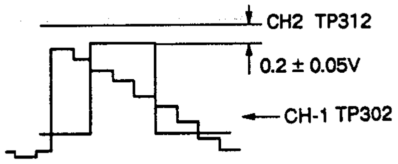
- **Setting input mode**

1) Press S908 (INPUT switch) on the F (front) board and select "RGB".

### 1. Using a color bar generator

Apply a half color signal to the "SYNC IN" terminal on the rear panel. Branch the input signal and change the connection terminals for each adjustment.

- B input gain adjustment: Apply the half color bar signal to the B-IN terminal (rear panel).
- G input gain adjustment: Apply the half color bar signal to the G-IN terminal (rear panel).
- R input gain adjustment: Apply the half color bar signal to the R-IN terminal (rear panel).

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 15 | B input gain | • Apply the half color bar signal. | • CH-1: TP304<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "B GAIN".<br>2) Reduce the difference between the peak level at TP304 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
| | Waveforms  | <Oscilloscope setting><br>• Apply trigger to TP308. | | | |
| 16 | G input gain | • Apply the half color bar signal. | • CH-1: TP303<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S906 [+] button | 1) Press S905 (SUB MENU switch) and select "G GAIN."<br>2) Reduce the difference between the peak level at TP303 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
| | Waveforms  | <Oscilloscope setting><br>• Apply trigger to TP308. | | | |
| 17 | R input gain | • Apply the half color bar signal. | • CH-1: TP302<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "R GAIN."<br>2) Reduce the difference between the peak level at TP302 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].<br>3) Press S902 (DISPLAY switch).<br>4) Remove the shorting across TP105 and TP106. |
| | Waveforms  | <Oscilloscope setting><br>• Apply trigger to TP308. | | | |

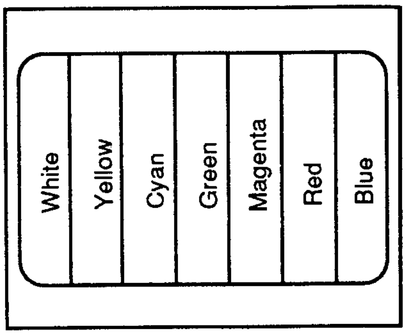
## 2. Using an RGB color bar generator

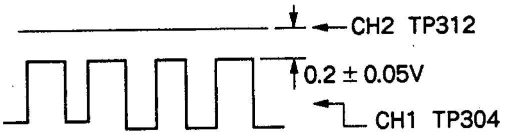
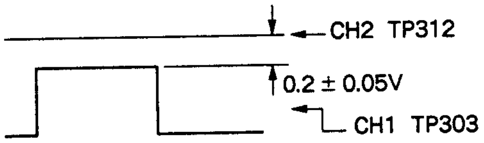
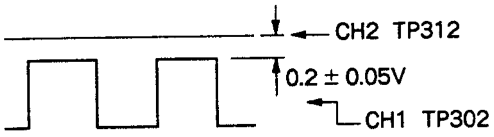
- **Connections**

Connect the color bar generator to the rear-panel terminal. Its RGB output level should be 0.7 Vp-p/75Ω and C.SYNC level 0.3 V to TTL level/75Ω.

Note: Some color bar generators have the output level of 0.5 Vp-p.

- **Reference input signal**



| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 18 | B input gain | • Apply the RGB signal. | • CH-1: TP304<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "B GAIN."<br>2) Reduce the difference between the peak level at TP304 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
|  | Waveforms  CH2 TP312<br>0.2 ± 0.05V<br>CH1 TP304 | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |  |
| 19 | G input gain | • Apply the RGB signal. | • CH-1: TP303<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S906 [+] button | 1) Press S905 (SUB MENU switch) and select "G GAIN."<br>2) Reduce the difference between the peak level at TP303 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch]. |
|  | Waveforms  CH2 TP312<br>0.2 ± 0.05V<br>CH1 TP303 | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |  |
| 20 | R input gain | • Apply the RGB signal. | • CH-1: TP302<br>• CH-2: TP312 (S-board) | • S906 [–] button<br>• S907 [+] button | 1) Press S905 (SUB MENU switch) and select "R GAIN."<br>2) Reduce the difference between the peak level at TP302 and the DC level at TP312 within 0.2 ±0.05 V using S906 [– switch] and S907 [+ switch].<br>3) Press S902 (DISPLAY switch).<br>4) Remove the shorting across TP105 and TP106. |
|  | Waveforms  CH2 TP312<br>0.2 ± 0.05V<br>CH1 TP302 | <Oscilloscope setting><br>• Apply trigger to TP308. |  |  |  |

| No. | Item | Condition | Test point | Adjust | Procedure |
|---|---|---|---|---|---|
| 21 | Head voltage | • Apply no signal. | • CP51-1<br>• CP51-6 (SWR-board) | • R55 (REG board) | 1) Connect a DC voltmeter to pins 1 and 6 of CP51 on the SWR board.<br>2) Read the resistance value given on the thermal head. The table given at left indicates the voltage value corresponding to the resistance read.<br>3) Adjust R55 so that the reading of the DC voltmeter is equal to the value given from the table.<br>Note:<br>(1) After this adjustment, print the color bars. If colors are too thick or tails are produced, lower the voltage by about 0.3 V. If colors are thin, raise the voltage by about 0.3 V.<br>(2) To print with the front panel removed, hold the ink cartridge door SW and ink cartridge firmly by hand. |

[For PAL]

| Head resistance (Ω) | Voltage (V) |
|---|---|
| 1804~1815 | 17.3 |
| 1816~1835 | 17.4 |
| 1836~1855 | 17.5 |
| 1856~1876 | 17.6 |
| 1877~1896 | 17.7 |
| 1897~1917 | 17.8 |
| 1918~1938 | 17.9 |
| 1939~1959 | 18.0 |
| 1960~1980 | 18.1 |
| 1981~2001 | 18.2 |
| 2002~2022 | 18.3 |
| 2023~2043 | 18.4 |
| 2044~2065 | 18.5 |
| 2066~2086 | 18.6 |
| 2087~2108 | 18.7 |
| 2109~2130 | 18.8 |
| 2131~2151 | 18.9 |
| 2152~2173 | 19.0 |
| 2174~2196 | 19.1 |
| 2197~2218 | 19.2 |
| 2219~2240 | 19.3 |
| 2241~2262 | 19.4 |
| 2263~2285 | 19.5 |
| 2286~2296 | 19.6 |

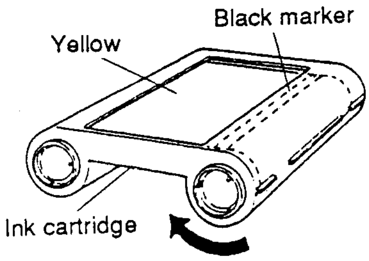
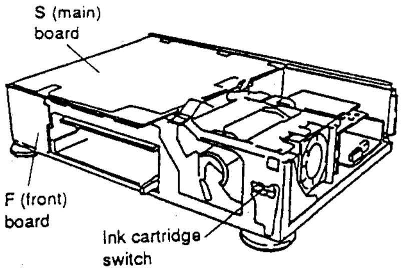
[For NTSC]

| Head resistance (Ω) | Voltage (V) |
|---|---|
| 1760~1764 | 19.0 |
| 1765~1782 | 19.0 |
| 1783~1801 | 19.0 |
| 1802~1819 | 19.0 |
| 1820~1838 | 19.1 |
| 1839~1856 | 19.2 |
| 1857~1875 | 19.3 |
| 1876~1894 | 19.4 |
| 1895~1912 | 19.5 |
| 1913~1931 | 19.6 |
| 1932~1950 | 19.7 |
| 1951~1970 | 19.8 |
| 1971~1989 | 19.9 |
| 1990~2008 | 20.0 |
| 2009~2028 | 20.1 |
| 2029~2047 | 20.2 |
| 2048~2067 | 20.3 |
| 2068~2086 | 20.4 |
| 2087~2106 | 20.5 |
| 2107~2126 | 20.6 |
| 2127~2146 | 20.7 |
| 2147~2166 | 20.8 |
| 2167~2186 | 20.9 |
| 2187~2207 | 21.0 |
| 2208~2227 | 21.1 |
| 2228~2240 | 21.2 |

**Mechanism Sensor Circuit Board Adjustment**

o Fault due to incomplete adjustment

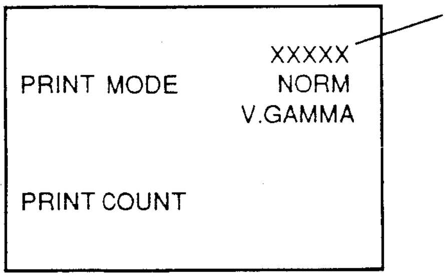
The paper is discharged without being printed, the ink is normal while the INK LED is flashing, but the roll of ink paper is fed without printing.

<table>
<tr><th>No.</th><th>Item</th><th>Condition</th><th>Test point</th><th>Adjust</th><th>Procedure</th></tr>
<tr><td rowspan="2">22</td><td>Ink Sensor Level Adjustment</td><td>• No input signal.</td><td>• PG1-7 (Mecha. Sensor Board)</td><td>• RT2001 (Mech. Sensor Board)</td><td rowspan="2">1) Take up the roll of ink paper in the cartridge until the black marker cannot be seen. (Fig. 1)<br>2) Set the printer to the servicing position. (See page 4-1)<br>3) Place a sheet of paper, etc. on the thermal head to shut off the light.<br>4) Insert the ink cartridge into the printer, and while holding the cartridge and ink cartridge door switch, turn the power on. (Fig. 2)<br>5) Press the PRINT switch after the READY indicator lights to initialize the ink paper. (Perform adjustment while the ink paper is initialized.)<br>6) Connect a DC voltmeter to PG1 pin 7 and adjust it so the voltage is 3.8-3.9V when the yellow and magenta ink sections are being fed. Then check that the voltage is 1.5V or less when the cyan ink section is being fed (when this can be confirmed, adjustment is completed).<br>If the above cannot be confirmed, adjust the voltage when the cyan section is being fed is 1.4-1.5V. (RT2001)<br>7) After the voltage has been adjusted at the cyan ink section, perform the check in step 6) again.</td></tr>
<tr><td colspan="4">– Ink initializing state –<br>The state in which only the roll of ink paper is fed while the head is lowered slightly to locate the start of the ink paper.<br><br> <br>Fig. 1<br><br> <br>Fig. 2</td></tr>
</table>

## Accumulated Print Counter Display

1) Connect a monitor TV and turn the power on.
2) Press the SELECT switch (S104) and hold it, then press the DISPLAY switch (S902) so the OSD menu appears on the TV screen.

OSD menu



XXXXX
PRINT MODE NORM
V.GAMMA
PRINT COUNT

Displays the accumulated counter value.

3) Press the DISPLAY switch (S902) again to switch off the display.

## Back-up ROM

- The following data is stored in the EEPROM (IC103 BR9021 on the S (main) board) for back-up.
  ① Accumulated print counter
  ② Adjustment data (INIT ADJ)
  ③ User setting status
- Initializing the back-up ROM
  There are two ways to initialize the back-up ROM (IC103).
  (1) ROM INIT ... Initializes all the data in ① - ③ above (the data is erased).

  Caution: Do not use this initialization for re-adjustment.

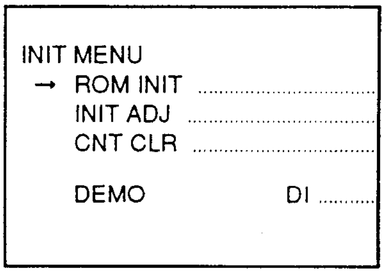
  (2) CNT CTR ... Clears only the data in ① above.

  Caution: Perform this initialization when the thermal head is replaced.

- Back-up ROM initialization procedure

1) Connect a monitor TV and turn the power on.
2) Press the DISPLAY switch (S902) to switch off the OSD.
3) Short TP1105 and TP1106 on the S (main) circuit board.
4) Press the MENU switch (S904).

OSD



INIT MENU
→ ROM INIT .................................. Clears all data.
INIT ADJ .................................. Clears the adjustment data
CNT CLR .................................. Clears the accumulated counter value.
DEMO DI ........... Note: Check DI is displayed.

※ To clear all data, press the MENU switch (S904) to align the arrow with ROM INIT.
※ To clear only the counter value, press the MENU switch (S904) to align the arrow with CNT CLR.

5) Press the SUB MENU switch (S905).
6) Press the MONITOR switch (S105) and DISPLAY switch (S902) simultaneously to clear the data.
7) When the INIT MENU is restored, press the DISPLAY switch (S902) and remove the short-circuit between TP1105 and TP1106.

- When DEMO DI is not displayed:

1) Display the INIT MENU and align the arrow with DEMO, then press the SUB MENU switch (S905).
2) Press the [+] switch (S907) to display DEMO DI.
3) Press the DISPLAY switch (S902).

## ERROR CODE TABLE

| Code | Fault | Conditions of error detection | State | Recovering method |
|---|---|---|---|---|
| 1 | Mode motor lock | 1)The required mode is not entered within 2 seconds after the mode motor is driven.<br>2)Mode 1 or 7 is entered before the mechanism enters the required mode. | ·Mode switch over-run<br>·Mode motor lock | 1) Open and close the print cartridge door. |
| 2 | Drum motor lock | No FG pulse is input for 150ms while the drum motor is driven. | ·FG input<br>·FG circuit faulty<br>·Drum motor lock (mechanism lock) | Same as in error 1 |
| 3 | Front paper discharge error | When the paper is fed by 1200 lines after it enters the paper discharge tray (paper sensor 2 changes to "Hi" from "Lo"), paper is not discharged (paper sensor 2 does not charge from "Hi" to "Lo"). | ·Paper sensor 2 : Hi<br>·Stroke of paper discharge arm faulty<br>·Paper sensor 2 faulty<br>·Paper jam (in paper discharge tray) | Remove the paper from the paper discharge tray.<br>Perform the same as in error 1. |
| 4 | Check position error | 1)When the drum is turned by one turn, the print start position (position sensor 3 charges to "Lo" from "Hi") is not detected.<br>2)After the charge from "Hi" to "Lo" is detected, "Hi" is detected again, the drum is stopped and rotated slightly in reverse, Position sensor 3 does not charge to "Lo" from "Hi" at this time. | ·Position sensor 3 : Hi | Same as in error 1 |
| 5 | Print start position error | After position sensor 3 changes to "Lo" from "Hi", the head is lowered. The drum moves at this time and position sensor 3 changes to "Hi" from "Lo". | ·Position sensor 3 : Hi | Same as in error 1 |
| 8 | Paper supply error | Paper is not located under the head at the start of printing. | ·The paper is released from the chuck.<br>·Position sensor 1 detects "Lo" when position sensor 3 is "Lo". | Same as in error 1 |
| 9 | Preheating error | The temperature does not charge within 100 seconds after preheating starts. | ·Thermistor circuit faulty<br>·Strobe circuit faulty | Check the circuits. |
| 10 | Ink jam | The take-up reel stops or rotates in reverse. (Ink jam is detected by the take-up reel sensor) | ·Abnormal printing<br>·Ink paper has slipped too much<br>·Ink jam | 1) Remove and re-insert the print cartridge.<br>2) Check to make sure there is no slack in the print cartridge ink paper. |
| 13 | Double feed (mistake in chucking) | Paper is present at the paper supply port when printing starts. | ·The position sensor 1 and paper marker sensor detect "Hi" when position sensor 3 is "Lo". | ·Pull out the print cartridge and close the cassette door. Perform the paper discharge operation. The INK LED flashes. Insert the print cartridge. |
| 14 | Lateral paper discharge error | 1)When the paper discharge operation is started and the drum is turned by one revolution, the end of paper does not reach paper sensor 2 (paper sensor 2 does not charge to "Hi" from "Lo"). (Paper is not discharged laterally even when the lateral paper discharge mode (mode 7) is entered.)<br>2)When the discharge operation is started and the drum is turned by one revolution, position sensor 1 detects paper (sensor output: Hi).<br>3)The mode motor or platen drum motor is locked while the discharge operation is started and the drum is turned by one revolution. | ·Paper Jam (on drum) | Remove the paper sticking to the drum. Then unplug the power cord from the AC outlet and plug it again. |
| 15 | I/F error | If the signals at the following pins of system control up IC806 continue to be "Lo" simultaneously for more than 300 ms.<br>IFROK (pin 22)<br>IFREQ (pin 32) | Defect in connention of the following signals between I/F up IC805 and system control up IC806.<br>IFROK, IFREQ, IFDATA, IFSCK, S.DATA | Check the circuits<br>Same as in error 1 |
| 16 | Error in color conversion | If printing of magenta is possible during color conversion printing, but color conversion is still performed even after 10 seconds have elapsed. | Defect in connection of the following signals between I/F up IC805 and system control up IC806.<br>IFDATA, IFSCK, S.DATA | Check the circuits<br>Same as in error 1 |

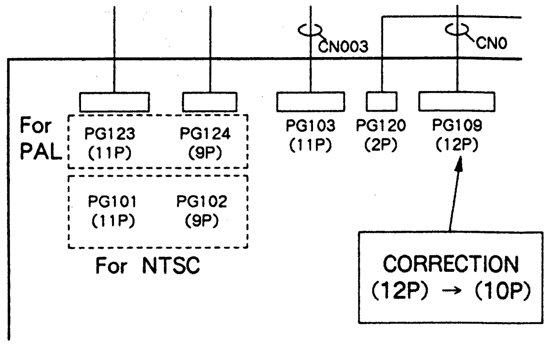
# CORRECTION OF SCHEMATIC DIAGRAMS

## 1. INTERNAL WIRING DIAGRAM

(schematic on page 5-1 in the Service Manual.)

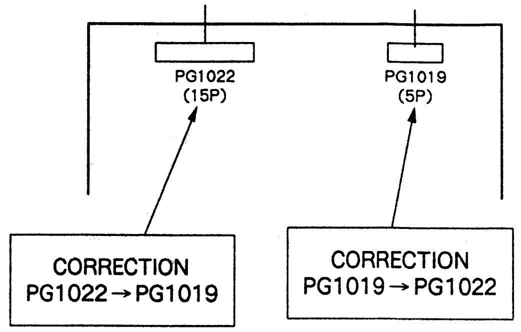
Section of Correction

1) Page 5-1 (D-1,2)


CN003
CNO
For PAL
PG123 (11P)
PG124 (9P)
PG103 (11P)
PG120 (2P)
PG109 (12P)
PG101 (11P)
PG102 (9P)
For NTSC
CORRECTION
(12P) → (10P)

Section of Correction

2) Page 5-1 (B-1,2)

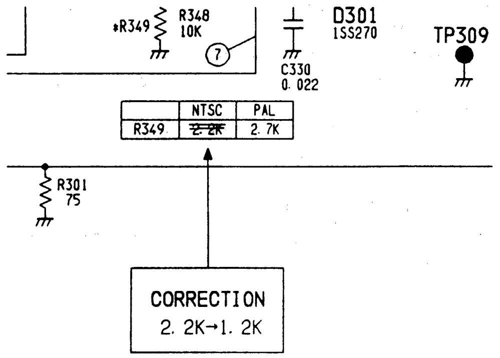

PG1022 (15P)
PG1019 (5P)
CORRECTION
PG1022→PG1019
CORRECTION
PG1019→PG1022

## 2. MAIN(ANALOG-2 SECTION) Shematic Diagram

(schematic on pages 5-7 to 5-8 in the Service Manual.)

Section of Correction

3) Page 5-8 (D-4)


*R349
R348 10K
7
C330 0.022
D301 1SS270
TP309
R349
NTSC
PAL
~~2.2K~~
2.7K
R301 75
CORRECTION
2.2K→1.2K

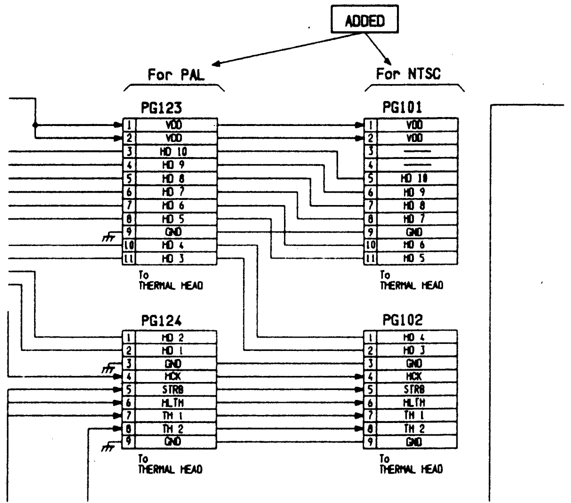
Section of Correction

## 3. MAIN(DIGITAL-1 SECTION) Shematic Diagram

(schematic on pages 5-9 to 5-10 in the Service Manual.)

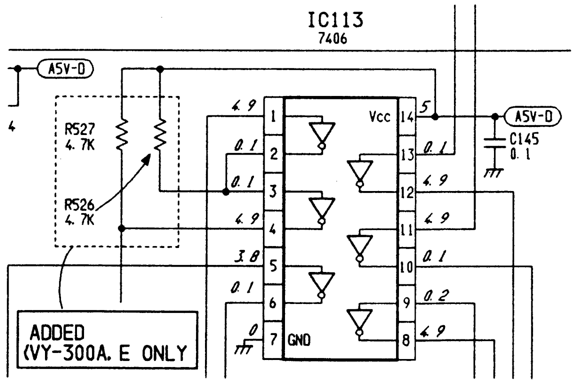
Section of Correction

4) Page 5-9 (F-5)


ADDED
For PAL
For NTSC
PG123
PG101
VDD
HD 10
HD 9
HD 8
HD 7
HD 6
HD 5
GND
HD 4
HD 3
To THERMAL HEAD
PG124
PG102
HD 2
HD 1
GND
HCK
STRB
HLTH
TH 1
TH 2
To THERMAL HEAD

Section of Correction

5) Page 5-10 (D-8)

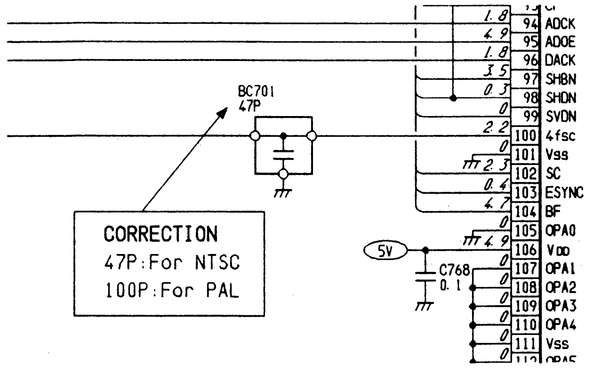

IC113
7406
A5V-D
R527 4.7K
R526 4.7K
Vcc
GND
C145 0.1
ADDED
(VY-300A, E ONLY)

## 4. MAIN(MEMORY-1 SECTION) Shematic Diagram

(schematic on pages 5-13 to 5-14 in the Service Manual.)

Section of Correction

6) Page 5-14 (B-6)


BC701 47P
CORRECTION
47P:For NTSC
100P:For PAL
5V
C768 0.1
ADCK
ADOE
DACK
SHBN
SHDN
SVDN
4fsc
Vss
SC
ESYNC
BF
OPA0
VDD
OPA1
OPA2
OPA3
OPA4
Vss

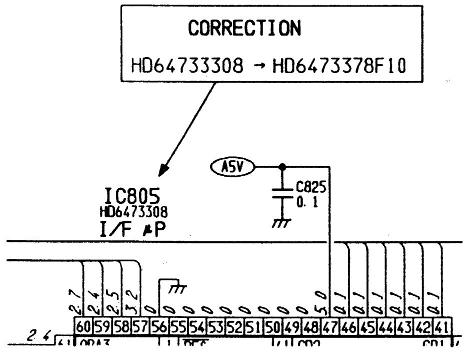
Section of Correction

## 5. MAIN(MEMORY-2 SECTION) Shematic Diagram

(schematic on pages 5-15 to 5-16 in the Service Manual.)

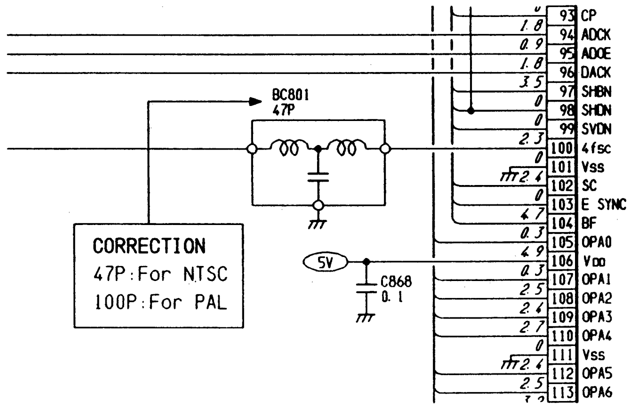
Section of Correction

7) Page 5-15 (D-2)


CORRECTION
HD64733308 → HD6473378F10
IC805
HD6473308
I/F μP
A5V
C825 0.1

Section of Correction

8) Page 5-16 (B-7)

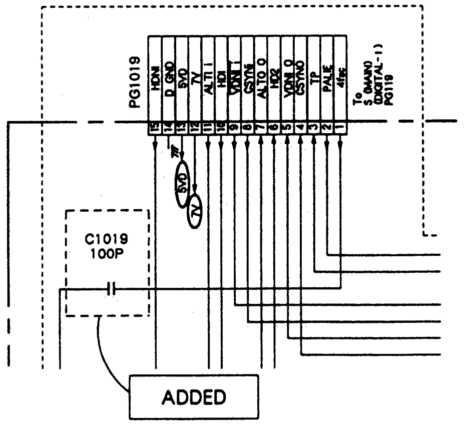

BC801 47P
CORRECTION
47P:For NTSC
100P:For PAL
5V
C868 0.1
CP
ADCK
ADOE
DACK
SHBN
SHDN
SVDN
4fsc
Vss
SC
E SYNC
BF
OPA0
VDD
OPA1
OPA2
OPA3
OPA4
Vss
OPA5
OPA6

## 6. SSG Shematic Diagram

(schematic on page 5-19 in the Service Manual.)

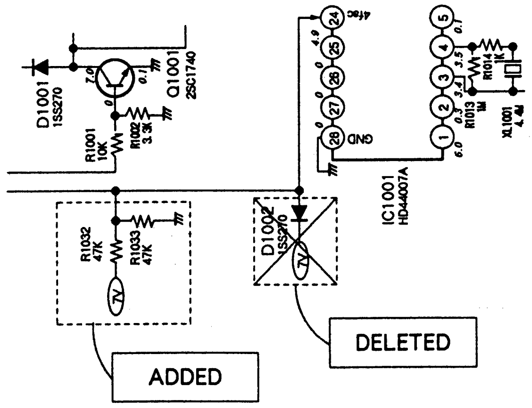
Section of Correction

9) Page 5-19 (D-1)

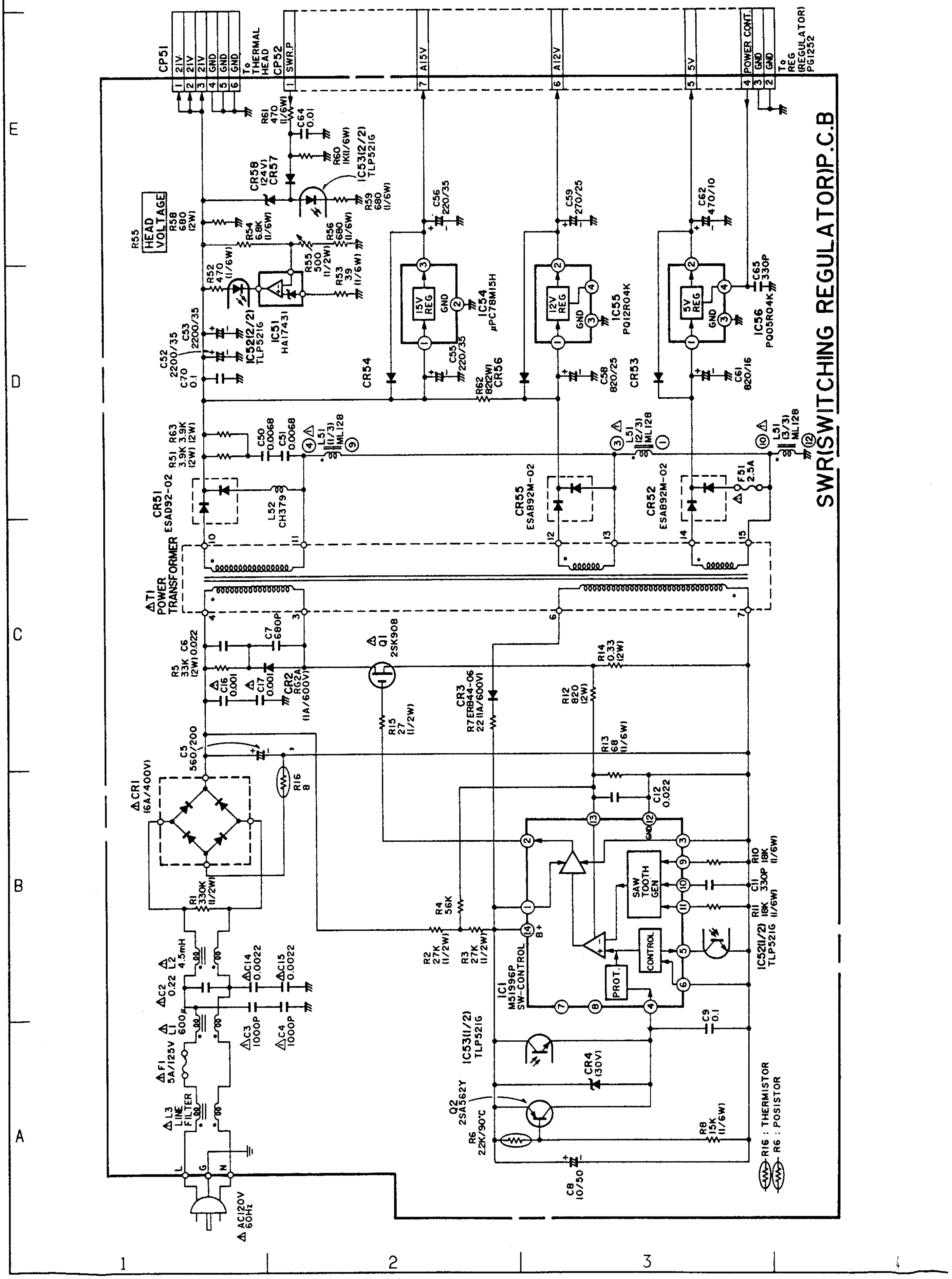

PG1019
C1019 100P
ADDED

Section of Correction

10) Page 5-19 (B-2)

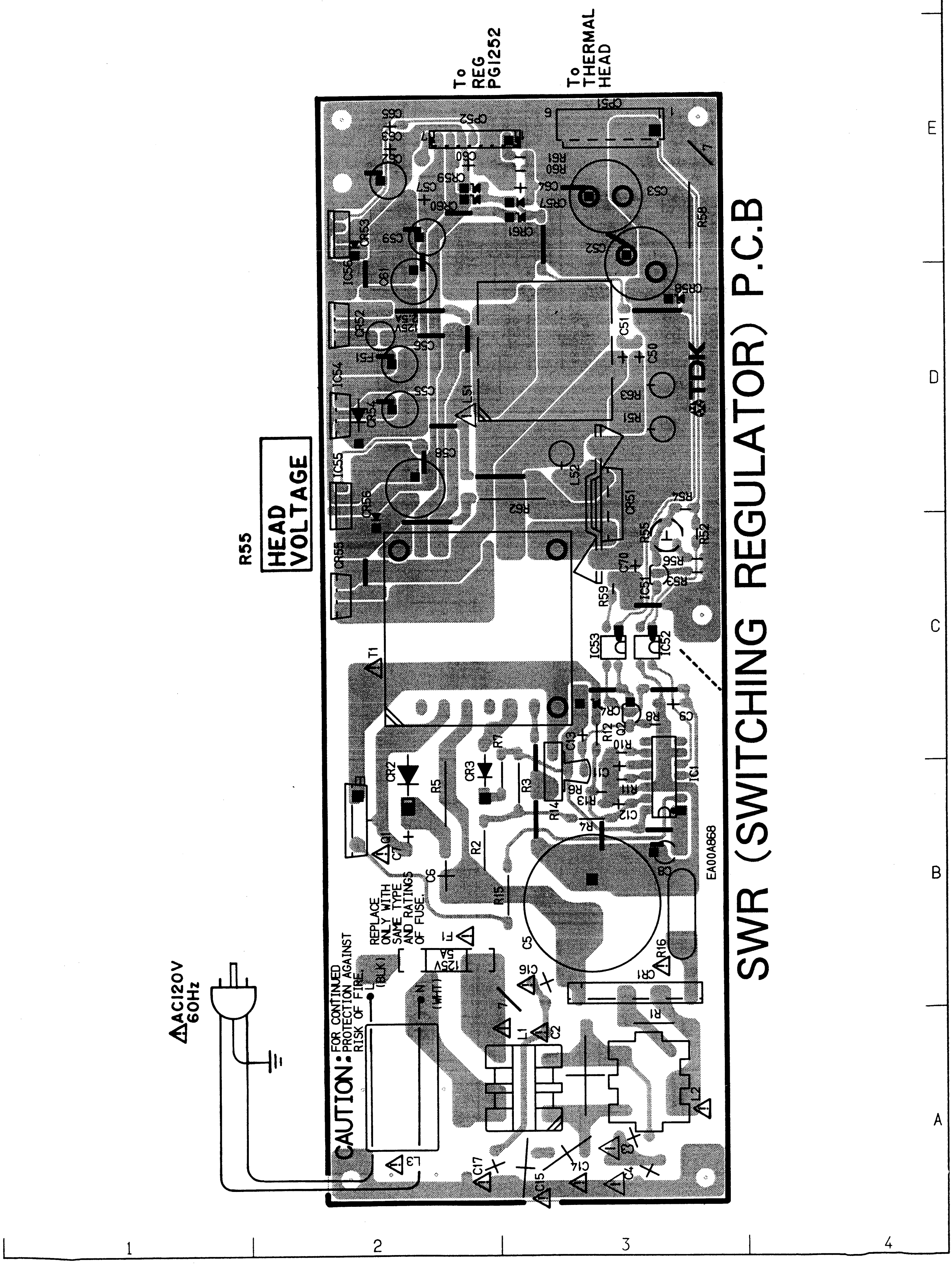

D1001 1SS270
Q1001 2SC1740
R1001 10K
R1002 3.3K
IC1001 HD44007A
X1001 4.4M
R1032 47K
R1033 47K
D1002 1SS270
GND
ADDED
DELETED

# SWR (SWITCHING REGULATOR) SCHEMATIC DIAGRAM (For NTSC)


CP51
21V
21V
21V
GND
GND
GND
To THERMAL HEAD
CP52
SWR.P
A15V
A12V
5V
POWER CONT.
GND
GND
To REG (REGULATOR) PG1252
SWR(SWITCHING REGULATOR)P.C.B
HEAD VOLTAGE
R55
R61 470 (1/6W)
C64 0.01
R60 1K(1/6W)
IC53(2/2) TLP521G
CR58 (24V) CR57
R59 680 (1/6W)
R58 680 (2W)
R54 6.8K (1/6W)
R56 680 (1/6W)
R55 500 (1/2W)
R53 39 (1/6W)
R52 470 (1/6W)
IC52(2/2) TLP521G
IC51 HA17431
C52 2200/35
C53 2200/35
C70 0.1
C56 220/35
15V REG
IC54 μPC78M15H
C55 220/35
CR54
R62 82(2W)
CR56
C59 270/25
12V REG
GND
IC55 PQ12R04K
C58 820/25
CR53
C62 470/10
5V REG
IC56 PQ05R04K
C65 330P
C61 820/16
R51 3.9K (2W)
R63 3.9K (2W)
C50 0.0068
C51 0.0068
L51 (1/3) ML128
L51 (2/3) ML128
L51 (3/3) ML128
F51 2.5A
CR51 ESAD92-02
L52 CH379
CR55 ESAB92M-02
CR52 ESAB92M-02
T1 POWER TRANSFORMER
R5 33K (2W)
C6 0.022
C7 680P
C16 0.001
C17 0.001
CR2 RG2A (1A/600V)
Q1 2SK908
R14 0.33 (2W)
CR3 R7ERB44-06
22 (1A/600V)
R15 27 (1/2W)
R12 820 (2W)
R13 68 (1/6W)
C5 560/200
CR1 (6A/400V)
R16 8
C12 0.022
R1 330K (1/2W)
R4 56K
SAW TOOTH GEN
R10 18K (1/6W)
C11 330P
R11 18K (1/6W)
CONTROL
PROT.
B+
IC52(1/2) TLP521G
L2 4.5mH
C14 0.0022
C15 0.0022
C2 0.22
R2 27K (1/2W)
R3 27K (1/2W)
IC1 M51996P SW-CONTROL
C3 1000P
C4 1000P
L1 600μ
C9 0.1
F1 5A/125V
IC53(1/2) TLP521G
CR4 (30V)
L3 LINE FILTER
Q2 2SA562Y
R6 22K/90°C
R8 15K (1/6W)
R16 : THERMISTOR
R6 : POSISTOR
C8 10/50
L G N
AC120V 60Hz
E
D
C
B
A
1
2
3
4

5-3 SWR (For NTSC)

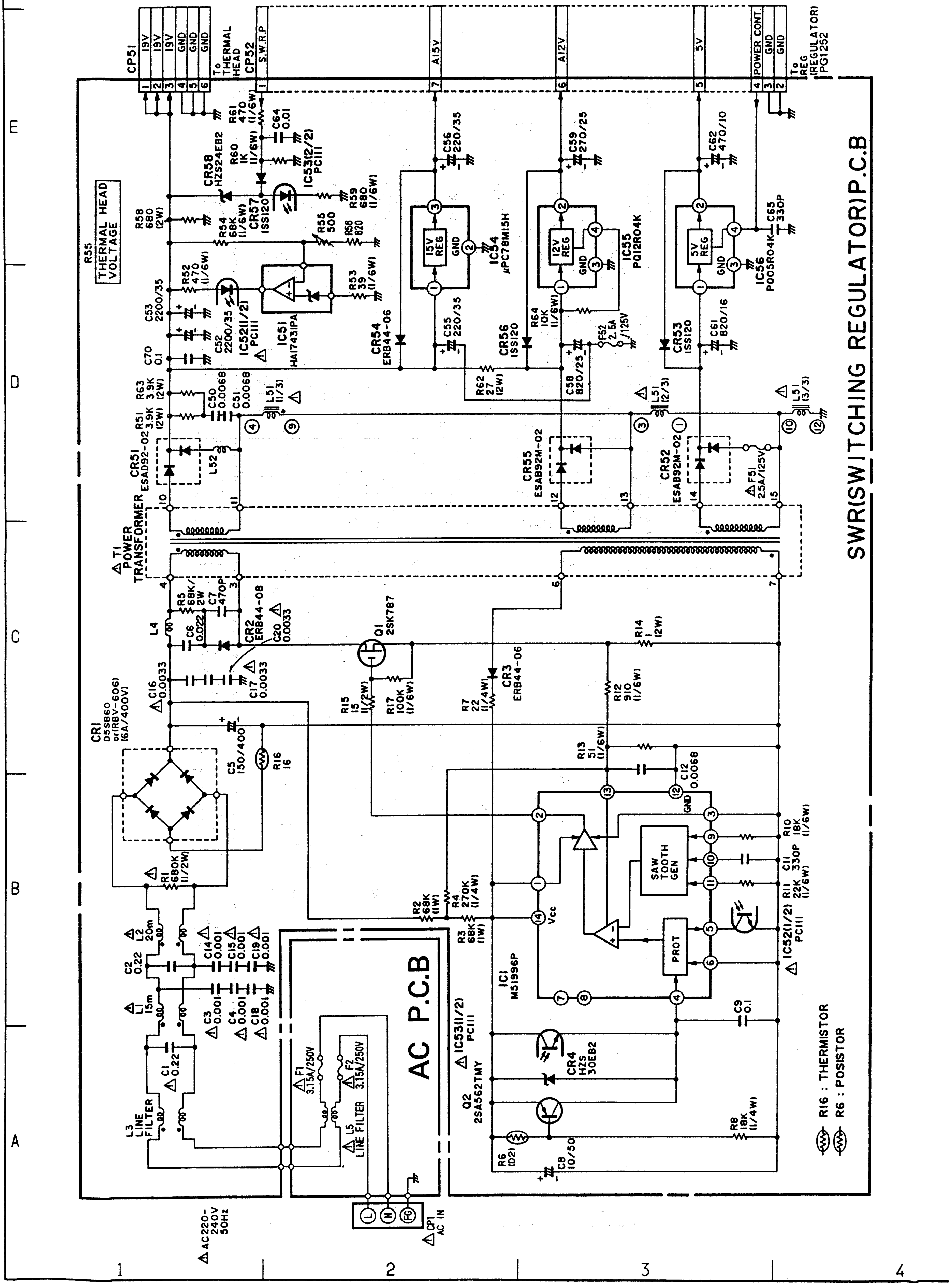
# SWR (SWITCHING REGULATOR) CIRCUIT BOARD DIAGRAM (For NTSC)



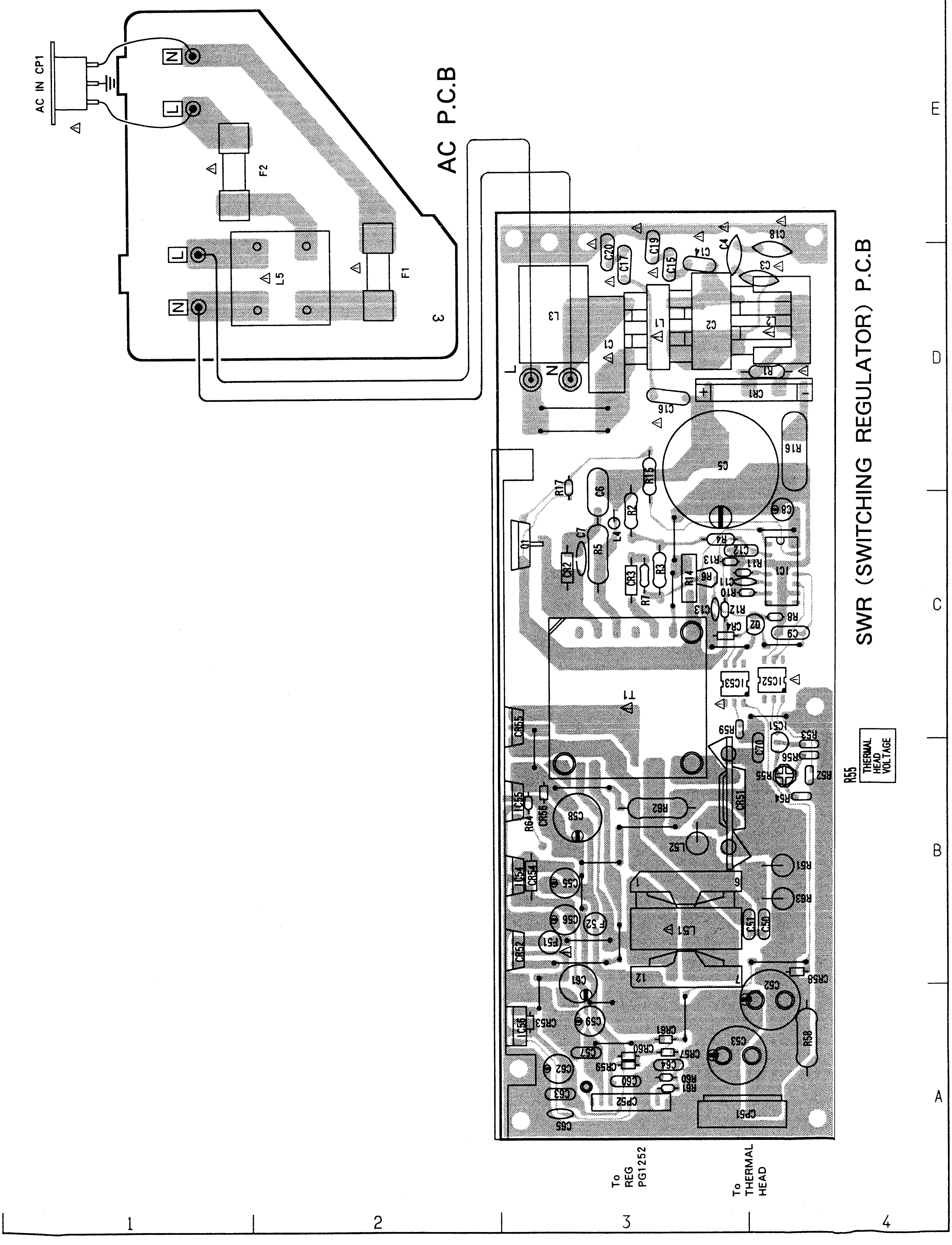
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSE.

To REG PG1252
To THERMAL HEAD
CP52
CP51
R55
HEAD VOLTAGE
SWR (SWITCHING REGULATOR) P.C.B
TDK
EA00A868
AC120V 60Hz
125V 5A
F1
(BLK)
(WHT)
L
N
T1
L1
L2
L3
L51
L52
IC1
IC51
IC52
IC53
IC54
IC55
IC56
CR1
CR2
CR3
CR51
CR52
CR53
CR54
CR56
CR57
CR58
CR59
CR60
CR61
Q1
Q2
C5
C51
C52
C53
R1
R2
R3
R5
R7
R14
R15
R16
R52
R53
R54
R56
R58
R59
R62
E
D
C
B
A
1
2
3
4

# SWR (SWITCHING REGULATOR) SCHEMATIC DIAGRAM (For PAL)


SWR(SWITCHING REGULATOR)P.C.B
AC P.C.B
CP51
19V
19V
19V
GND
GND
GND
To THERMAL HEAD
CP52
S.W.R.P
A15V
A12V
5V
POWER CONT.
GND
GND
To REG (REGULATOR) PG1252
R55 THERMAL HEAD VOLTAGE
R61 470 (1/6W)
C64 0.01
CR58 HZS24EB2
R60 1K (1/6W)
IC53(2/2) PC111
R59 680 (1/6W)
R58 680 (2W)
R54 68K (1/6W)
CR57 1SS120
R55 500
R56 820
R52 470 (1/6W)
R53 39 (1/6W)
C53 2200/35
C52 2200/35
IC52(1/2) PC111
IC51 HA17431PA
C70 0.1
C56 220/35
15V REG
GND
IC54 μPC78M15H
CR54 ERB44-06
C55 220/35
C59 270/25
12V REG
IC55 PQ12R04K
CR56 1SS120
R64 10K (1/6W)
F52 2.5A /125V
C58 820/25
R62 27 (2W)
C62 470/10
C65 330P
5V REG
IC56 PQ05R04K
CR53 1SS120
C61 820/16
R63 3.9K (2W)
R51 3.9K (2W)
C50 0.0068
C51 0.0068
L51 (1/3)
L51 (2/3)
L51 (3/3)
L52
CR51 ESAD92-02
CR55 ESAB92M-02
CR52 ESAB92M-02
F51 2.5A/125V
T1 POWER TRANSFORMER
R5 68K/ 2W
C7 470P
L4
C6 0.022
CR2 ERB44-08
C20 0.0033
Q1 2SK787
R14 1 (2W)
C16 0.0033
C17 0.0033
R15 15 (1/2W)
R17 100K (1/6W)
R7 22 (1/4W)
CR3 ERB44-06
R12 910 (1/6W)
CR1 D5SB60 or(RBV-606) (6A/400V)
C5 150/400
R16 16
R13 51 (1/6W)
C12 0.0068
GND
R10 18K (1/6W)
SAW TOOTH GEN
C11 330P
R11 22K (1/6W)
R1 680K (1/2W)
R2 68K (1W)
R4 270K (1/4W)
R3 68K (1W)
Vcc
PROT
IC52(1/2) PC111
L2 20m
C2 0.22
C14 0.001
C15 0.001
C19 0.001
IC1 M51996P
L1 15m
C3 0.001
C4 0.001
C18 0.001
C9 0.1
C1 0.22
F1 3.15A/250V
F2 3.15A/250V
IC53(1/2) PC111
CR4 HZS 30EB2
L3 LINE FILTER
L5 LINE FILTER
Q2 2SA562TMY
R8 18K (1/4W)
R6 (D2)
C8 10/50
R16 : THERMISTOR
R6 : POSISTOR
CP1 AC IN
L
N
FG
AC220-240V 50Hz
E
D
C
B
A
1
2
3
4

# SWR (SWITCHING REGULATOR) CIRCUIT BOARD DIAGRAM (For PAL)


AC IN CP1
AC P.C.B
SWR (SWITCHING REGULATOR) P.C.B
F1
F2
L5
L
N
L1
L2
L3
C1
C2
C3
C4
C5
C14
C15
C16
C17
C18
C19
C20
CR1
R1
R16
Q1
Q2
IC1
T1
IC51
IC52
IC53
L51
L52
CP51
CP52
R55
THERMAL HEAD VOLTAGE
To REG PG1252
To THERMAL HEAD
A
B
C
D
E
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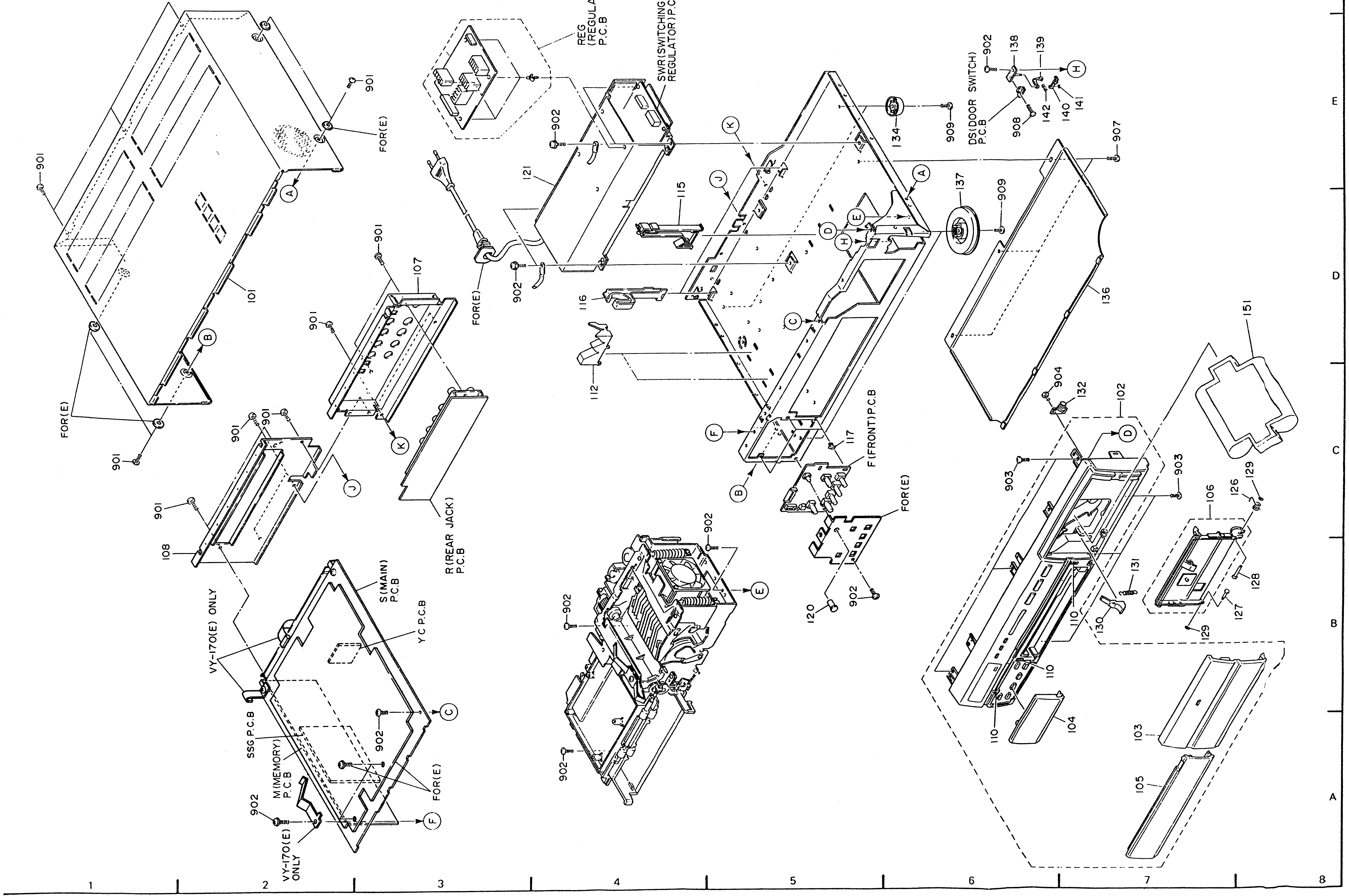
2
3
4

# EXPLODED VIEWS

## 1. CABINET SECTION


901
FOR(E)
A
B
101
107
K
J
108
R(REAR JACK) P.C.B
S(MAIN) P.C.B
YC P.C.B
SSG P.C.B
M(MEMORY) P.C.B
VY-170(E) ONLY
902
C
F
REG (REGULATOR) P.C.B
SWR(SWITCHING REGULATOR)P.C.B
121
115
116
112
E
D
H
117
F(FRONT)P.C.B
120
134
909
DS(DOOR SWITCH) P.C.B
138
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142
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136
151
904
132
102
903
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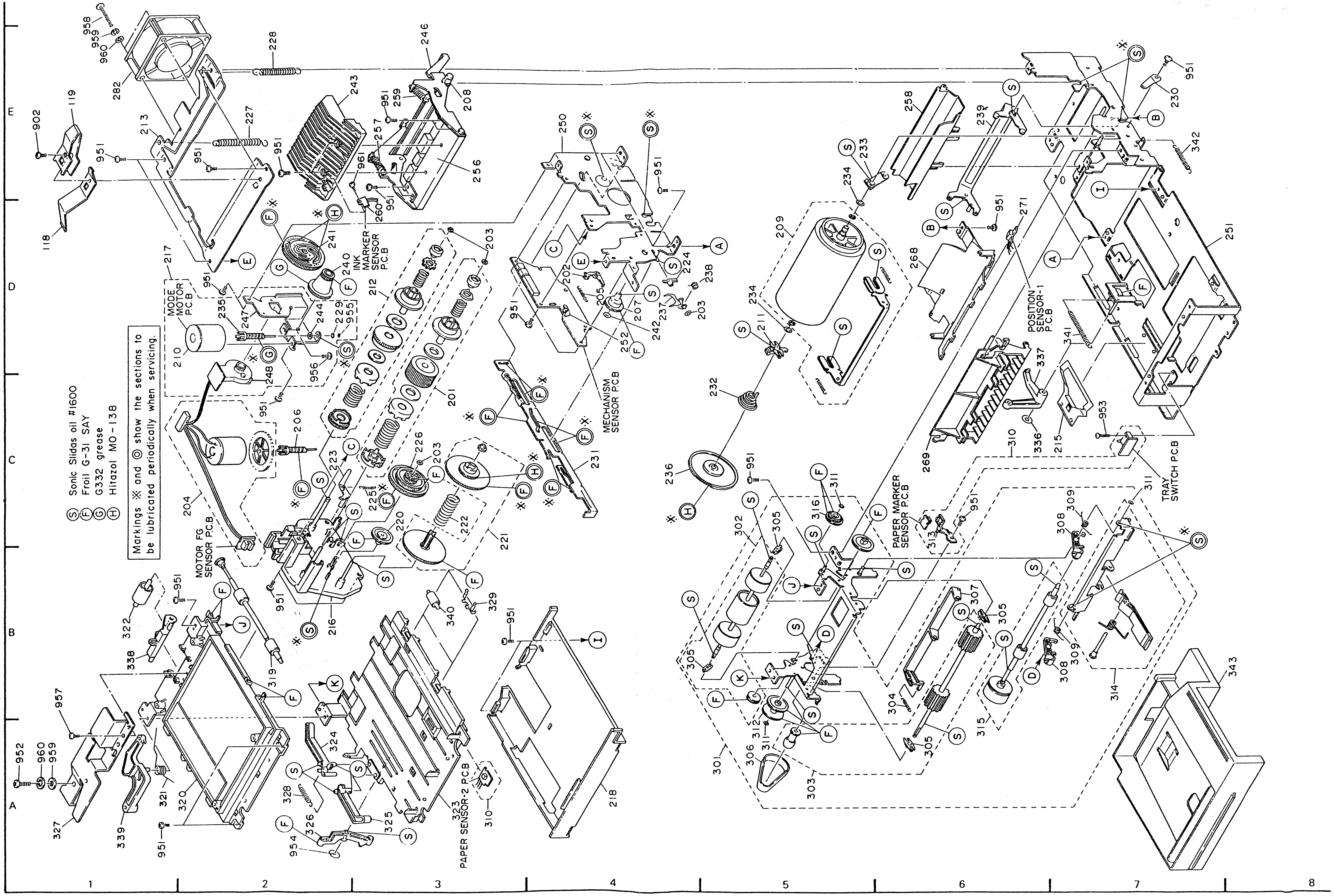
D
C
B
A

## 2. PRINT MECHANISM SECTION



Ⓢ Sonic Slidas oil #1600
Ⓕ Froil G-31 SAY
Ⓖ G332 grease
Ⓗ Hitazol MO-138
Markings ※ and ◎ show the sections to be lubricated periodically when servicing.
MODE MOTOR P.C.B
INK MARKER SENSOR P.C.B
MOTOR FG SENSOR P.C.B
MECHANISM SENSOR P.C.B
POSITION SENSOR-1 P.C.B
PAPER MARKER SENSOR P.C.B
TRAY SWITCH P.C.B
PAPER SENSOR-2 P.C.B
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202
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343
902
951
952
953
954
955
956
957
958
959
960
961
A
B
C
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G
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J
K
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7
8

# REPLACEMENT PARTS LIST

## 1. ELECTRICAL PARTS LIST 〔VY-170 (E)〕

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| | | CAPACITORS | C138 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| | | | C139 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C1001 | 0880003 | POLYESTER FILM 1000PF+−10% 50V | C302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1002 | 0890069 | CERAMIC DISC 47PF+−5% 50V | C305 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1004 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V | C306 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1005 | 0880003 | POLYESTER FILM 1000PF+−10% 50V | C307 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1007 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C308 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1008 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C309 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1009 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V | C310 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C101 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C311 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1011 | 0880003 | POLYESTER FILM 1000PF+−10% 50V | C312 | 0209641 | CERAMIC DISC 10000PF+−10% 16V |
| C1012 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C314 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C102 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C319 | 0890092 | CERAMIC DISC 2200PF+−10% 50V |
| C103 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C320 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C321 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C105 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C324 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C107 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C328 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C330 | 0890102 | CERAMIC DISC 0.022UF+80−20% 50V |
| C111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C332 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C1110 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C333 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C1111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C334 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C1112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C336 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C1113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C337 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C1114 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C338 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C1115 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C339 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1116 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C343 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C344 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C1118 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C345 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C1119 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C346 | 0207163 | TANTALUM 1.0UF+−10% 35V |
| C112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C347 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1120 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C348 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1121 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C349 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1127 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C350 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1128 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C351 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C352 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1130 | 0249647 | CERAMIC DISC 0.1UF+−10% 16V | C353 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1131 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C354 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1132 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C361 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1133 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C362 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1138 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C363 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1139 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C364 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C114 | 0890064 | CERAMIC DISC 18PF+−5% 50V | C367 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C115 | 0890064 | CERAMIC DISC 18PF+−5% 50V | C368 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C369 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1205 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C372 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1207 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C373 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1208 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C376 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| ⚠C121 | 0880015 | POLYESTER FILM 0.068UF+−10% 50V | C377 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1213 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C378 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1215 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C380 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1216 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C381 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C122 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V | C383 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C127 | 0880013 | POLYESTER FILM 0.033UF+−10% 50V | C386 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C1301 | 0890074 | CERAMIC DISC 100PF+−5% 50V | C390 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C391 | 0880016 | POLYESTER FILM 0.1UF+−10% 50V |
| C131 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C393 | 0204274 | POLYESTER FILM 4700PF+−5% 100V |
| C132 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C394 | 0880005 | POLYESTER FILM 2200PF+−10% 50V |
| C134 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V | C396 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C136 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C398 | 0880011 | POLYESTER FILM 0.015UF+−10% 50V |
| C137 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C400 | 0880014 | POLYESTER FILM 0.047UF+−10% 50V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C401 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C402 | 0880006 | POLYESTER FILM 3300PF+-10% 50V |
| C403 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C404 | 0880008 | POLYESTER FILM 6800PF+-10% 50V |
| C405 | 0880003 | POLYESTER FILM 1000PF+-10% 50V |
| C406 | 0204277 | POLYESTER FILM 1500PF+-5% 100V |
| C407 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C408 | 0204272 | POLYESTER FILM 3300PF+-5% 100V |
| C411 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C416 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C417 | 0890064 | CERAMIC DISC 18PF+-5% 50V |
| C418 | 0890043 | CERAMIC DISC 0.01UF+-20% 16V |
| C419 | 0890043 | CERAMIC DISC 0.01UF+-20% 16V |
| C420 | 0890043 | CERAMIC DISC 0.01UF+-20% 16V |
| C421 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C422 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C423 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C424 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C425 | 0890075 | CERAMIC DISC 120PF+-5% 50V |
| C431 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C444 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C445 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C446 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C447 | 0890046 | CERAMIC DISC 0.1UF+80-20% 50V |
| C448 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C449 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C450 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C451 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C452 | 0890028 | CERAMIC DISC 330PF+-10% 50V |
| C453 | 0209647 | CERAMIC DISC 0.1UF+-10% 16V |
| C701 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C702 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C703 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C704 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C706 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C708 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C709 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C711 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C712 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C713 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C714 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C715 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C716 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C718 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C719 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C720 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C721 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C722 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C724 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C725 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C730 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C732 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C733 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C734 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C735 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C736 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C737 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C738 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C739 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C760 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C761 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C762 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C763 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C764 | 0209893 | CERAMIC CHIP 22PF+-10% 50V |
| C765 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C767 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C768 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C769 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C770 | 0209893 | CERAMIC CHIP 22PF+-10% 50V |
| C771 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C778 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C779 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C780 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C781 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C782 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C783 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C784 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C785 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C786 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |
| C787 | 0893055 | CERAMIC CHIP 0.1UF+80-20% 16V |

## RESISTORS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| RD001 | 0170341 | CARBON FILM 120OHM+-5%,1/8W |
| RD002 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD003 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD004 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD005 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD006 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD007 | 0170348 | CARBON FILM 470OHM+-5% 1/8W |
| RD008 | 01703483 | CARBON FILM 470OHM+-5% 1/8W |
| RD009 | 0170345 | CARBON FILM 270OHM+-5% 1/8W |
| RD010 | 0170358 | CARBON FILM 3.3KOHM+-5% 1/8W |
| RF101 | 0101719 | FUSE RESSISTOR 3.3OHM+-5%1/4W |
| RF102 | 0101711 | FUSE RESISTOR 2.2OHM+-5% 1/4W |
| RF103 | 0101711 | FUSE RESISTOR 2.2OHM+-5% 1/4W |
| RT101 | 5007444 | SEMI VARIABLE 1KOHM |
| RT2001 | 5006255 | SEMI VARIABLE 2.2KOHM |
| RT301 | 5007443 | SEMI VARIABLE 470OHM |
| RT302 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT303 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT304 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT305 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT306 | 5007444 | SEMI VARIABLE 1KOHM |
| RT307 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT308 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT310 | 5007444 | SEMI VARIABLE 1KOHM |
| R1001 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1002 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R1003 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1004 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1005 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R1006 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R1007 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1008 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1009 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R101 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R1010 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R1011 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1012 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R1013 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R1014 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1015 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1016 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R1017 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R1018 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R1019 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R102 | 0101756 | RESISTOR 1.0KOHM+-1% 1/8W |
| R1020 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R1021 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R1022 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R103 | 0101763 | RESISTOR 4.7KOHM+−1% 1/8W | R1201 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W |
| R1032 | 0171096 | CARBON FILM 1.8KOHM+−5% 1/8W | R1202 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W |
| R104 | 0700071 | CARBON FILM 180KOHM+−5% 1/8W | R1203 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W |
| R105 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R1204 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W |
| R106 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R1205 | 0101829 | CARBON FILM 470OHM+−5% 1/4W |
| R107 | 0101759 | METAL FILM 2.2KOHM+−1% 1/8W | R1206 | 0101821 | CARBON FILM 100OHM+−5% 1/4W |
| R108 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W | R1207 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R109 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R121 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R110 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R122 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1101 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R123 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1102 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R124 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1103 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R125 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1104 | 0700038 | CARBON FILM 680OHM+−5% 1/8W | R126 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1105 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R127 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R1106 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1107 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R129 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1108 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R130 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R1109 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R1301 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R111 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R1302 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1110 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R1303 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1111 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R1304 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1112 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R1305 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1113 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R1306 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1114 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R1307 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R1115 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R1308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1116 | 0700032 | RESISTOR 220 OHM+−5% 1/8W | R1309 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1117 | 0700029 | CARBON FILM 150OHM+−5% 1/8W | R131 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1118 | 0700029 | CARBON FILM 150OHM+−5% 1/8W | R1311 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R1119 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R1313 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R112 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R1314 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R1120 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R1315 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R1121 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R132 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1122 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R133 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1123 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R134 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| R1124 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R135 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1125 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R136 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1126 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R137 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1127 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R138 | 0700028 | CARBON FILM 120OHM+−5% 1/8W |
| R1128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R139 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R1129 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R140 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R113 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R141 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1130 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R142 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1131 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R143 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1132 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R144 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1133 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R145 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1134 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R146 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1135 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R147 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1136 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R148 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1137 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R149 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1138 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R150 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1139 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R151 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| R114 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R152 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1140 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R153 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R1141 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R154 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1142 | 0700031 | CARBON FILM 180OHM+−5% 1/8W | R155 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R1143 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R156 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| R1144 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R157 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1145 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R158 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1146 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R159 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R115 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R160 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R116 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R161 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R117 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W | R162 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R118 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W | R163 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R119 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R164 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R120 | 0700031 | CARBON FILM 180OHM+−5% 1/8W | R165 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R166 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R167 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R168 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R169 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R170 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R171 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R172 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R173 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R174 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R175 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R176 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R177 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R178 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R180 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R181 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R183 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R184 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R186 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R187 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R188 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R189 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R190 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R191 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R192 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R193 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R194 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R195 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R196 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R197 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R198 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R199 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R200 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R201 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R202 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R203 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R205 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R207 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R208 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R209 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R210 | 0101765 | RESISTOR 10KOHM+-0.1% 1/8W |
| R211 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R212 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R213 | 0700073 | CARBON FILM 270KOHM+-5% 1/8W |
| R214 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R215 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R216 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R217 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R218 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R219 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R220 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R246 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R247 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R253 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R254 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R255 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R256 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R257 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R258 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R259 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R260 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R261 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R262 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R263 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R264 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R266 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R301 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R302 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R303 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W |
| R304 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R305 | 0700039 | CARBON FILM 820OHM+-5% 1/8W |
| R307 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R308 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R309 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R310 | 0700039 | CARBON FILM 820OHM+-5% 1/8W |
| R311 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R312 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R322 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R323 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R324 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R325 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R332 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R333 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R334 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R335 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R336 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R338 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R339 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R340 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R341 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W |
| R342 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R343 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R344 | 0700032 | RESISTOR 220 OHM+-5% 1/8W |
| R345 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W |
| R347 | 0101766 | CHIP RESISTOR 12KOHM+-1% 1/8W |
| R348 | 0101765 | RESISTOR 10KOHM+-0.1% 1/8W |
| R349 | 0101761 | CHIP RESISTOR 2.7KOHM+-1% 1/8W |
| R350 | 0700076 | CARBON FILM 470KOHM+-5% 1/8W |
| R351 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R352 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R353 | 0700075 | CARBON FILM 390KOHM+-5% 1/8W |
| R354 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W |
| R355 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R356 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R357 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R358 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R359 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R360 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R361 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R362 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R367 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R368 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R369 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R370 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R371 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R372 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R373 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R374 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R375 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R376 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R377 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R378 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R379 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R380 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R381 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R382 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R383 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R384 | 0700039 | CARBON FILM 820OHM+-5% 1/8W |
| R385 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R386 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R387 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R388 | 0700039 | CARBON FILM 820OHM+−5% 1/8W | R455 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R389 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R456 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R390 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R457 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R391 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R458 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R392 | 0700039 | CARBON FILM 820OHM+−5% 1/8W | R459 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R393 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R460 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R394 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R461 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R395 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R462 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R396 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R463 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R397 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R464 | 0700029 | CARBON FILM 150OHM+−5% 1/8W |
| R398 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R465 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R399 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R466 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R400 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R467 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R401 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R468 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R402 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R469 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R403 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R470 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R404 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R471 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R405 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R472 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R406 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R473 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R407 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R474 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R408 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R475 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R409 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R476 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R410 | 0700068 | CARBON FILM 120KOHM+−5% 1/8W | R477 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| R411 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R478 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R412 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R479 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R413 | 0700037 | CARBON FILM 560OHM+−5% 1/8W | R480 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R416 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W | R481 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R417 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W | R482 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R418 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W | R483 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R419 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W | R484 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R420 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W | R485 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R421 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R486 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R422 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R487 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R423 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R488 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R424 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R489 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R425 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R490 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R426 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R491 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R427 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R492 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R428 | 0700033 | CARBON FILM 270OHM+−5% 1/8W | R493 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R429 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R494 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R430 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R495 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R431 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R496 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R432 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R497 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R433 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R498 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R434 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R499 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R435 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R500 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R436 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R501 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R437 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R502 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R438 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W | R503 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R439 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W | R504 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R440 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W | R505 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R441 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W | R506 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R442 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R507 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R443 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R508 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R444 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R509 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R445 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R513 | 0700062 | CARBON FILM 39KOHM+−5% 1/8W |
| R446 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W | R514 | 0700066 | CARBON FILM 82KOHM+−5% 1/8W |
| R447 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R515 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R448 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R516 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R449 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R517 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R450 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W | R518 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R451 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R519 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R452 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W | R520 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R453 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R521 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R454 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R522 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R523 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R525 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R701 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R702 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R703 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R704 | 0104116 | CHIP RESISTOR 39KOHM 1/10W |
| R705 | 0104111 | METAL FILM 10KOHM+-10% 1/10W |
| R706 | 0104123 | CHIP RESISTOR 8.2KOHM+-1% 1/10W |
| R715 | 0103855 | CHIP RESISTOR 10KOHM+-5% 0.1W |
| R718 | 0103879 | CHIP RESISTOR 1MOHM+-5% 0.1W |
| R719 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R720 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R721 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R722 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R723 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R724 | 0103848 | CHIP RESISTOR 2.7KOHM+-5% 0.1W |
| R725 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R726 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R727 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R728 | 0103855 | CHIP RESISTOR 10KOHM+-5% 0.1W |
| R729 | 0103841 | CHIP RESISTOR 680 OHM+-5% 0.1W |
| R730 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R731 | 0103851 | CHIP RESISTOR 4.7KOHM+-5% 0.1W |
| R732 | 0103849 | CHIP RESISTOR 3.3KOHM+-5% 0.1W |
| R735 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R736 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R901 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R902 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R903 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R904 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R905 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R906 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R907 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R908 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R909 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |

## SEMI-CONDUCTORS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D1001 | 5339141 | DIODE 1SS270 |
| D1002 | 5339141 | DIODE 1SS270 |
| D1003 | 5339141 | DIODE 1SS270 |
| D1004 | 5339141 | DIODE 1SS270 |
| D1005 | 5339141 | DIODE 1SS270 |
| D101 | 5339141 | DIODE 1SS270 |
| D1011 | 5331031 | DIODE 1SV68-01 |
| D102 | 5339141 | DIODE 1SS270 |
| D103 | 5339141 | DIODE 1SS270 |
| D104 | 5339141 | DIODE 1SS270 |
| D105 | 5339141 | DIODE 1SS270 |
| D106 | 5339141 | DIODE 1SS270 |
| D107 | 5339141 | DIODE 1SS270 |
| D1101 | 5339141 | DIODE 1SS270 |
| D1102 | 5339141 | DIODE 1SS270 |
| D1103 | 5339141 | DIODE 1SS270 |
| D1104 | 5339141 | DIODE 1SS270 |
| D1105 | 5339141 | DIODE 1SS270 |
| D1106 | 5339141 | DIODE 1SS270 |
| D1107 | 5339141 | DIODE 1SS270 |
| D112 | 5339231 | DIODE 1SR35-100A |
| D113 | 5339231 | DIODE 1SR35-100A |
| D114 | 5339141 | DIODE 1SS270 |
| D115 | 5339141 | DIODE 1SS270 |
| D116 | 5339141 | DIODE 1SS270 |
| D117 | 5339141 | DIODE 1SS270 |
| D118 | 5339141 | DIODE 1SS270 |
| D119 | 5339141 | DIODE 1SS270 |
| D120 | 5339141 | DIODE 1SS270 |
| D1201 | 5339141 | DIODE 1SS270 |
| D121 | 5339141 | DIODE 1SS270 |
| D122 | 5339141 | DIODE 1SS270 |
| D123 | 5339141 | DIODE 1SS270 |
| D124 | 5339141 | DIODE 1SS270 |
| D125 | 5339141 | DIODE 1SS270 |
| D126 | 5339141 | DIODE 1SS270 |
| D127 | 5339141 | DIODE 1SS270 |
| D128 | 5339141 | DIODE 1SS270 |
| D130 | 5339141 | DIODE 1SS270 |
| D131 | 5339141 | DIODE 1SS270 |
| D133 | 5339141 | DIODE 1SS270 |
| D134 | 5339141 | DIODE 1SS270 |
| D135 | 5339141 | DIODE 1SS270 |
| D136 | 5339141 | DIODE 1SS270 |
| D137 | 5339141 | DIODE 1SS270 |
| D138 | 5339141 | DIODE 1SS270 |
| D139 | 5339141 | DIODE 1SS270 |
| D140 | 5339141 | DIODE 1SS270 |
| D141 | 5339141 | DIODE 1SS270 |
| D142 | 5339141 | DIODE 1SS270 |
| D143 | 5339141 | DIODE 1SS270 |
| D144 | 5339141 | DIODE 1SS270 |
| D145 | 5339141 | DIODE 1SS270 |
| D146 | 5339141 | DIODE 1SS270 |
| D147 | 5339141 | DIODE 1SS270 |
| D148 | 5339141 | DIODE 1SS270 |
| D210 | 5339141 | DIODE 1SS270 |
| D211 | 5339141 | DIODE 1SS270 |
| D213 | 5339141 | DIODE 1SS270 |
| D214 | 5339141 | DIODE 1SS270 |
| D215 | 5339141 | DIODE 1SS270 |
| D301 | 5339141 | DIODE 1SS270 |
| D302 | 5339141 | DIODE 1SS270 |
| D303 | 5339141 | DIODE 1SS270 |
| D304 | 5339141 | DIODE 1SS270 |
| D305 | 5332791 | DIODE 1SS270 |
| D702 | 5328321 | DIODE MA151K (MH) |
| D703 | 5328321 | DIODE MA151K (MH) |
| D705 | 5328321 | DIODE MA151K (MH) |
| D706 | 5328321 | DIODE MA151K (MH) |
| D707 | 5328321 | DIODE MA151K (MH) |
| D901 | 5339141 | DIODE 1SS270 |
| D902 | 5339141 | DIODE 1SS270 |
| D903 | 5339141 | DIODE 1SS270 |
| D904 | 5339141 | DIODE 1SS270 |
| D905 | 5339141 | DIODE 1SS270 |
| D906 | 5339141 | DIODE 1SS270 |
| D907 | 5339141 | DIODE 1SS270 |
| D908 | 5339141 | DIODE 1SS270 |
| D909 | 5339141 | DIODE 1SS270 |
| D910 | 5339141 | DIODE 1SS270 |
| IC1001 | 1361681 | IC HD44007A |
| IC1002 | 5301411 | IC NJU74HC04D |
| IC1003 | 5301611 | IC NJU74HC157D |
| IC101 | 1359991 | IC MB635120 |
| IC102 | 1342288 | IC M50558-112SP |
| IC103 | 1367401 | IC BR9021 |
| IC104 | 5301591 | IC SN74HC32N |
| IC105 | 5369911 | IC M54548L |
| IC106 | 5369171 | IC M54543L |
| IC107 | 5365673 | IC NJM2901N |
| IC108 | 5365673 | IC NJM2901N |
| IC109 | 1345791 | IC HA17807 |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| IC1101 | 1360271 | IC HA118104 | Q114 | 5327071 | TRANSISTOR DTC124ES |
| IC1102 | 1360271 | IC HA118104 | Q115 | 5327071 | TRANSISTOR DTC124ES |
| IC1103 | 1360271 | IC HA118104 | Q116 | 5327071 | TRANSISTOR DTC124ES |
| IC1201 | 1362352 | IC NJM7809FA | Q117 | 5327072 | TRANSISTER DTA124ES |
| IC1202 | 1360351 | IC NJM7805FA | Q118 | 5327071 | TRANSISTOR DTC124ES |
| IC1203 | 1360351 | IC NJM7805FA | Q119 | 5327072 | TRANSISTER DTA124ES |
| IC1204 | 1360351 | IC NJM7805FA | Q120 | 5327071 | TRANSISTOR DTC124ES |
| IC301 | 1360271 | IC HA118104 | Q1201 | 1321321 | TRANSISTOR 2SB1187(E/F) |
| IC302 | 5300781 | IC M51489L | Q1202 | 5327021 | TRANSISTOR 2SA844CD |
| IC303 | 1345841 | IC NJM2233BL | Q1203 | 5327071 | TRANSISTOR DTC124ES |
| IC304 | 1340731 | IC V7021 | Q121 | 5327072 | TRANSISTER DTA124ES |
| IC305 | 1360271 | IC HA118104 | Q122 | 5327071 | TRANSISTOR DTC124ES |
| IC306 | 1345921 | IC UPD6336C | Q123 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC307 | 1362256 | IC NJM2904L | Q124 | 5327071 | TRANSISTOR DTC124ES |
| IC308 | 1361771 | IC M5216L | Q125 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC309 | 1362256 | IC NJM2904L | Q126 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC310 | 1362256 | IC NJM2904L | Q127 | 5324111 | TRASISTOR 2SD1209 |
| IC311 | 1345841 | IC NJM2233BL | Q128 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC312 | 1341661 | IC LM393 | Q1301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC313 | 5301411 | IC NJU74HC04D | Q1302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC314 | 1341661 | IC LM393 | Q1303 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC315 | 5367091 | IC HA11423 | Q301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC316 | 5301641 | IC UPD74HC221AC | Q302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC317 | 1340681 | IC V7040 | Q306 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC318 | 1359451 | IC CXA1211M | Q309 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC319 | 1359451 | IC CXA1211M | Q310 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC701 | 1354352 | IC CXD1175AM | Q311 | 5327071 | TRANSISTOR DTC124ES |
| IC702 | 1354352 | IC CXD1175AM | Q312 | 1320004 | TRANSISTOR 2SA854SQR |
| IC703 | 1354352 | IC CXD1175AM | Q313 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC704 | 1340741 | IC CXD1178Q | Q314 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC706 | 1365907 | IC HD6473378F10VY−MXS06A | Q320 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC707 | 1365772 | IC MB635130 | Q321 | 1320004 | TRANSISTOR 2SA854SQR |
| IC708 | 1343541 | IC SN74S124N | Q322 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC709 | 1359153 | IC HM514800LJP−8Z | Q323 | 1320004 | TRANSISTOR 2SA854SQR |
| IC710 | 1359153 | IC HM514800LJP−8Z | Q324 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC711 | 1359153 | IC HM514800LJP−8Z | Q325 | 1320004 | TRANSISTOR 2SA854SQR |
| IC721 | 5366542 | IC PST520C2 | Q326 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC722 | 5364601 | IC M5278L05 | Q327 | 5327061 | TRANSISTOR 2SC1740S−ST |
| IC723 | 1365841 | IC HD74HC74FP | Q328 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1001 | 5327061 | TRANSISTOR 2SC1740S−ST | Q329 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1002 | 1320004 | TRANSISTOR 2SA854SQR | Q330 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1003 | 5327061 | TRANSISTOR 2SC1740S−ST | Q331 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q101 | 1320004 | TRANSISTOR 2SA854SQR | Q332 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q102 | 1320004 | TRANSISTOR 2SA854SQR | Q333 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q103 | 1320004 | TRANSISTOR 2SA854SQR | Q334 | 1320004 | TRANSISTOR 2SA854SQR |
| Q104 | 5327061 | TRANSISTOR 2SC1740S−ST | Q335 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q105 | 5327076 | TRANSISTOR XDA144ES | Q336 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q106 | 5327071 | TRANSISTOR DTC124ES | Q337 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q107 | 5327252 | TRANSISTOR DTC114YS | Q338 | 1320004 | TRANSISTOR 2SA854SQR |
| Q108 | 5327061 | TRANSISTOR 2SC1740S−ST | Q339 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q109 | 5327061 | TRANSISTOR 2SC1740S−ST | Q340 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q110 | 5324631 | TRANSISTOR 2SA1390C | Q341 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1101 | 5327061 | TRANSISTOR 2SC1740S−ST | Q342 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1102 | 5327061 | TRANSISTOR 2SC1740S−ST | Q343 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1103 | 1320004 | TRANSISTOR 2SA854SQR | Q344 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1104 | 5327061 | TRANSISTOR 2SC1740S−ST | Q345 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1105 | 5327061 | TRANSISTOR 2SC1740S−ST | Q346 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1106 | 5327061 | TRANSISTOR 2SC1740S−ST | Q347 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1107 | 5327061 | TRANSISTOR 2SC1740S−ST | Q348 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1108 | 5327061 | TRANSISTOR 2SC1740S−ST | Q349 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1109 | 5327061 | TRANSISTOR 2SC1740S−ST | Q350 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q111 | 5324631 | TRANSISTOR 2SA1390C | Q351 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1110 | 5327061 | TRANSISTOR 2SC1740S−ST | Q352 | 1320004 | TRANSISTOR 2SA854SQR |
| Q112 | 5324631 | TRANSISTOR 2SA1390C | Q353 | 1320004 | TRANSISTOR 2SA854SQR |
| Q113 | 5324631 | TRANSISTOR 2SA1390C | Q354 | 1320004 | TRANSISTOR 2SA854SQR |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q358 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q359 | 1320004 | TRANSISTOR 2SA854SQR |
| Q701 | 5328962 | TRANSISTOR 2SA1037K |
| Q702 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q703 | 5328962 | TRANSISTOR 2SA1037K |
| Q704 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q901 | 5327071 | TRANSISTOR DTC124ES |
| Q902 | 5327071 | TRANSISTOR DTC124ES |
| Q903 | 5327071 | TRANSISTOR DTC124ES |
| ZD101 | 5339251 | DIODE HZS2−C3 |
| ZD103 | 5339265 | DIODE HZS9−B3 |
| ZD104 | 5339251 | DIODE HZS2−C3 |
| ZD301 | 5339481 | DIODE HZS2B3 |
| ZD304 | 5339257 | DIODE HZS4 |
| ZD306 | 5339291 | DIODE HZS3B1 |

## COILS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| LT301 | 5124106 | COIL |
| L101 | 0770057 | CHOKE COIL 100UH+−5% |
| L102 | 0770046 | CHOKE COIL 15UH+−5% |
| L1101 | 0770044 | CHOKE COIL 10UH+−5% |
| L1102 | 0770044 | CHOKE COIL 10UH+−5% |
| L301 | 0770044 | CHOKE COIL 10UH+−5% |
| L302 | 0770057 | CHOKE COIL 100UH+−5% |
| L303 | 0770066 | CHOKE COIL 470UH+−5% |
| L304 | 0770056 | CHOKE COIL 82UH |
| L305 | 0770044 | CHOKE COIL 10UH+−5% |
| L306 | 0770062 | CHOKE COIL 220UH+−5% |
| L307 | 0770057 | CHOKE COIL 100UH+−5% |
| L309 | 0770057 | CHOKE COIL 100UH+−5% |
| L701 | 0773001 | CHOCE COIL 10UH+−10% |
| L702 | 0773001 | CHOCE COIL 10UH+−10% |
| L703 | 0773001 | CHOCE COIL 10UH+−10% |
| L704 | 0773001 | CHOCE COIL 10UH+−10% |
| L705 | 0773001 | CHOCE COIL 10UH+−10% |

## CRYSTALS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| XL1001 | 5778222 | CRYSTAL |
| XL301 | 5784551 | OSCILLATOR |
| XL701 | 1930011 | CRYSTAL |
| XL702 | 5778842 | OSCILLATOR |

## MISCELLANEOUS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC101 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC102 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC103 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC104 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC105 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC106 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC107 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC108 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC109 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC110 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1102 | 0235362 | LINE FILTER |
| BC1103 | 0235362 | LINE FILTER |
| BC1104 | 0235362 | LINE FILTER |
| BC1105 | 0235362 | LINE FILTER |
| BC1106 | 0235362 | LINE FILTER |
| BC1107 | 0235362 | LINE FILTER |
| BC1108 | 0235362 | LINE FILTER |
| BC1109 | 0235362 | LINE FILTER |
| BC111 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1110 | 0235362 | LINE FILTER |
| BC112 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC113 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC114 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC115 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC116 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC117 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC118 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC119 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC303 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC304 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC701 | 0235364 | CERAMIC DISC 100PF+−20% 100V |
| CP1301 | 5165165 | FILTER |
| CP1302 | 5163082 | BAND PASS FILTER |
| CP307 | 5163463 | LOW PASS FILTER |
| CP308 | 5163463 | LOW PASS FILTER |
| CP309 | 5163463 | LOW PASS FILTER |
| CP310 | 5165165 | FILTER |
| CP311 | 5165165 | FILTER |
| CP312 | 5165165 | FILTER |
| CT1001 | 5058563 | TRIMMER |
| CT701 | 5058576 | CAPACTOR TRIMMER |
| DL1301 | 5165161 | DELAY LINE |
| DL1302 | 5165161 | DELAY LINE |
| DL305 | 5786131 | DELAY LINE |
| DL306 | 5165341 | DELAY LINE |
| DL307 | 5165213 | DELAY LINE |
| DL308 | 5163483 | DELAY LINE |
| GL001 | 5382391 | DIDOE GL−471 |
| GPS01 | 5382062 | DIODE GP1S06E |
| GPS02 | 5382351 | DIDOE GP2S05J |
| GPS03 | 5333391 | TRANSISTOR NJL5161K |
| GPS04 | 5333391 | TRANSISTOR NJL5161K |
| GPS05 | 5382382 | DIODE GP2S07B |
| GPS06 | 5382382 | DIODE GP2S07B |
| GPS07 | 5382382 | DIODE GP2S07B |
| GPS08 | 5382382 | DIODE GP2S07B |
| GPS09 | 5382351 | DIDOE GP2S05J |
| GPS10 | 5382053 | IC GP2S04B |
| J101 | 5695641 | PLUG |
| J301 | 5655091 | PLUG |
| J302 | 5655091 | PLUG |
| LD101 | 5381668 | LED SLH34MT3 |
| LD102 | 5381668 | LED SLH34MT3 |
| LD103 | 5381668 | LED SLH34MT3 |
| LD104 | 5381668 | LED SLH34MT3 |
| LD901 | 5381667 | LED SLH34MT3 |
| LD902 | 5381667 | LED SLH34MT3 |
| LD903 | 5381667 | LED SLH34MT3 |
| MSW01 | 5610811 | SWITCH,MODE |
| SWP02 | 5633693 | SWITCH |
| S101 | 5635113 | SWITCH |
| S102 | 5635113 | SWITCH |
| S103 | 5635113 | SWITCH |
| S104 | 5635113 | SWITCH |
| S105 | 5635113 | SWITCH |
| S106 | 5635113 | SWITCH |
| S1101 | 5621784 | SWITCH |
| S1102 | 5621463 | SWITCH |
| S1103 | 5610931 | SWITCH |
| S901 | 5634921 | SWITCH |
| S902 | 5635061 | SWITCH |
| S903 | 5635061 | SWITCH |
| S904 | 5635061 | SWITCH |
| S905 | 5635061 | SWITCH |
| S906 | 5635061 | SWITCH |
| S907 | 5635061 | SWITCH |
| S907 | 5635231 | SWITCH |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| S908 | 5635061 | SWITCH |
| TPS01 | 1321602 | TRANSISTOR TPS605 |

## 2. MECHANICAL PARTS LIST [VY-170 (E)]

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **FOR FINAL ASSEMBLY** |
| 101 | 6006718 | COVER, TOP |
| 102 | 4720188 | PANEL, FRONT |
| 103 | 6487315 | COVER, INK |
| 104 | 4721392 | COVER, CONTROL |
| 105 | 6484653 | COVER PAPER |
| 106 | 4890483 | BRACKET |
| 107 | 6009441 | COVER, REAR (L) |
| 108 | 6009455 | COVER, REAR (R) |
| 110 | 6893561 | LATCH |
| 112 | 6811721 | BRACKET |
| 115 | 6809961 | BRACKET, PWB (A) |
| 116 | 6809982 | HOLDER, CBA |
| 117 | 6813761 | BRACKET |
| 118 | 6528221 | PLATE, EARTH |
| 119 | 4899941 | BRACKET |
| 120 | 6338271 | SHAFT |
| 121 | 5274185 | SWITCHING REGULATOR |
| 126 | 6552751 | SPRING |
| 127 | 4520651 | HOLDER |
| 128 | 4520652 | HOLDER |
| 129 | 7230901 | E RING FOR SPRING MOUNTING |
| 130 | 6072702 | KNOB |
| 131 | 6324432 | PREVENTION SPRING |
| 132 | 6813891 | DAMPER |
| 134 | 6438001 | RUBBER, LEG |
| 136 | 6006721 | COVER, BOTTOM |
| 137 | 6808681 | FELT, LEG |
| 138 | 4890391 | BRACKET |
| 139 | 6813812 | LEVER |
| 140 | 6813821 | LEVER |
| 141 | 7709091 | WASHER |
| 142 | 6303471 | SPRING |
| 151 | 4950351 | PROTECTOR |
| 201 | 6415936 | REEL TABLE (T) |
| 202 | 6822551 | ARM |
| 203 | 7778859 | POLYSLIDER WASHER |
| 204 | 4583011 | MOTOR |
| 205 | 6556461 | SPRING |
| 206 | 6347961 | WORM |
| 207 | 6440112 | GEAR |
| 208 | 6806721 | BASE |
| 209 | 6564334 | DRUM |
| 210 | 5579341 | MOTOR, LOADING |
| 211 | 4512211 | HOLDER, SHAFT |
| 212 | 6416482 | REEL TABLE (S) |
| 213 | 7442062 | BRACKET |
| 215 | 6527601 | SPRING |
| 216 | 6901041 | REEL CHASSIS |
| 217 | 7467223 | MOTOR, LOADING |
| 218 | 6807022 | GUIDE |
| 220 | 6437381 | GEAR |
| 221 | 7873811 | GEAR ASSY |
| 222 | 6523452 | SPRING |
| 223 | 6806702 | ARM |
| 224 | 6820271 | ARM |
| 225 | 6543131 | SPRING |
| 226 | 6437412 | GEAR |
| 227 | 6556482 | SPRING |
| 228 | 6556481 | SPRING |
| 229 | 7786112 | POL SLIDER WASHER |
| 230 | 7474841 | PLATE |
| 231 | 4583081 | SLIDER |
| 232 | 6523915 | SPRING |
| 233 | 4512201 | HOLDER, SHAFT |
| 234 | 7786113 | POLYESTER SLIDER WASHER |
| 235 | 6437451 | GEAR |
| 236 | 6347983 | GEAR |
| 237 | 7469181 | PLATE |
| 238 | 6552311 | SPRING |
| 239 | 7467202 | ARM |
| 240 | 6437401 | GEAR |
| 241 | 6347971 | GEAR |
| 242 | 7789311 | WASHER |
| 243 | 6378321 | PLATE |
| 246 | 7473042 | ARM |
| 244 | 7786119 | POLISLIDER WASHER |
| 247 | 7442081 | BRACKET |
| 248 | 5610811 | MODE SWITCH |
| 250 | 7138886 | CHASSIS (L) |
| 251 | 7139231 | SHASSIS (R) |
| 252 | 6807051 | HOLDER |
| 256 | 5443541 | THERMAL HEAD |
| 257 | 6558163 | SPRING |
| 258 | 6806841 | GUIDE |
| 259 | 6558162 | SPRING |
| 260 | 1620301 | PWB ASSY INK SENSOR (IS) |
| 268 | 6807002 | GUIDE |
| 269 | 6807013 | GUIDE |
| 271 | 1605962 | PWB ASSY PAPER SENSOR 1 |
| 282 | 1710031 | FAN |
| 301 | 7132708 | PAPER SUPPLY MECHANISM ASSY |
| 302 | 6564274 | ROLLER |
| 303 | 6564292 | ROLLER |
| 304 | 6300081 | SPRING |
| 305 | 4512121 | HOLDER |
| 306 | 6357692 | BELT |
| 307 | 6806742 | ARM |
| 308 | 6806751 | ARM |
| 309 | 6552041 | SPRING |
| 310 | 1605976 | PWB ASSY SWITCH/PAPER |
| 311 | 7787578 | WASHER |
| 312 | 6440122 | GEAR |
| 313 | 6820432 | HOLDER |
| 314 | 7467213 | ARM |
| 315 | 6564362 | ROLLER |
| 316 | 6437361 | GEAR |
| 319 | 6564341 | ROLLER |
| 320 | 4583041 | TRAY |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 321 | 6529991 | SPRING |
| 322 | 6424441 | ROLLER |
| 323 | 6806872 | TRAY |
| 324 | 6806761 | ARM |
| 325 | 6806771 | ARM |
| 326 | 6806733 | LEVER |
| 327 | 4583091 | PLATE |
| 328 | 6556491 | SPRING |
| 329 | 6527591 | SPRING |
| 336 | 7778859 | POLYSLIDER WASHER |
| 337 | 4583061 | ARM |
| 338 | 4583051 | ARM |
| 339 | 4583071 | ARM |
| 340 | 6424451 | ROLLER |
| 341 | 6556302 | SPRING |
| 342 | 6300844 | SPRING |
| 343 | 4712961 | TRAY |
| 901 | 7784114 | SCREW (3X6) |
| 902 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 903 | 8744406 | BINDDING SCREW—3MMD×6MM |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 904 | 8691410 | SCREW |
| 907 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 908 | 87411063 | SCREW (2X6) |
| 909 | 8744406 | BINDING SCREW – 3MMD X 6MM |
| 951 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 952 | 8741412 | SCREW (B3X12) |
| 953 | 8741108 | SCREW (2X8) |
| 954 | 7707531 | WASHER |
| 955 | 7774942 | E RING |
| 956 | 8741403 | BIND SCREW–3MMDX3MM |
| 957 | 8691405 | SCREW (3X5) |
| 958 | 87414303 | BIND SCREW–3MMDX30MM |
| 959 | 8812114 | WASHER – 3MMD SMALL |
| 960 | 8813114 | SPRING WASHER–3MMD |
| 961 | 0711304 | PAN HEAD SCREW—2.6MMD×4MM |
| **FOR ACCESSARIES** | | |
| 803 | 5852591 | CORD, POWER |

# 3. ELECTRICAL PARTS LIST 〔VY-300 (A)〕

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **CAPACITORS** |
| C101 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1016 | 0890037 | CERAMIC DISC 2200PF+−20% 16V |
| C1017 | 0890037 | CERAMIC DISC 2200PF+−20% 16V |
| C1018 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C102 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C103 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C105 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C106 | 0800048 | ELECTROLYTIC 100UF 10V |
| C107 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C108 | 0800032 | ELECTROLYTIC 33UF 16V |
| C109 | 0800015 | ELECTROLYTIC 10UF 16V |
| C110 | 0800049 | ELECTROLYTIC 100UF 16V |
| C1101 | 0800183 | ELECTROLYTIC 33UF 10V |
| C1102 | 0800175 | ELECTROLYTIC 1.0UF 50V |
| C1103 | 0800178 | ELECTROLYTIC 4.7UF 35V |
| C1104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1105 | 0800175 | ELECTROLYTIC 1.0UF 50V |
| C1106 | 0800175 | ELECTROLYTIC 1.0UF 50V |
| C1107 | 0800175 | ELECTROLYTIC 1.0UF 50V |
| C1108 | 0207406 | ELECTROLYTIC 10UF 10V |
| C1109 | 0800185 | ELECTROLYTIC 47UF 6.3V |
| C111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1110 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1114 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1115 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1116 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1118 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1119 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1120 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1121 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1122 | 0800153 | ELECTROLYTIC 470UF 6.3V |
| C1123 | 0800153 | ELECTROLYTIC 470UF 6.3V |
| C1124 | 0800153 | ELECTROLYTIC 470UF 6.3V |
| C1125 | 0800153 | ELECTROLYTIC 470UF 6.3V |
| C1127 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1128 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1129 | 0207406 | ELECTROLYTIC 10UF 10V |
| C113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1130 | 0249647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1131 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1132 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1133 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1134 | 0800186 | ELECTROLYTIC 47UF 16V |
| C1135 | 0800152 | ELECTROLYTIC 220UF 10V |
| C1136 | 0800151 | ELECTROLYTIC 220UF 6.3V |
| C1137 | 0800151 | ELECTROLYTIC 220UF 6.3V |
| C1138 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1139 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C114 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C1140 | 0207406 | ELECTROLYTIC 10UF 10V |
| C115 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C116 | 0800003 | ELECTROLYTIC 1UF 50V |
| C117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C118 | 0800049 | ELECTROLYTIC 100UF 16V |
| C119 | 0800151 | ELECTROLYTIC 220UF 6.3V |
| C120 | 0800109 | ELECTROLYTIC 1.0UF 50V |
| C1201 | 0800197 | ELECTROLYTIC 220UF 16V |
| C1202 | 0800192 | ELECTROLYTIC 100UF 16V |
| C1203 | 0800192 | ELECTROLYTIC 100UF 16V |
| C1204 | 0800192 | ELECTROLYTIC 100UF 16V |
| C1205 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1206 | 0800201 | ELECTROLYTIC 33UF 16V |
| C1207 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1208 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1209 | 0800201 | ELECTROLYTIC 33UF 16V |
| ⚠C121 | 0880015 | POLYESTER FILM 0.068UF+−10% 50V |
| C1210 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1211 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1212 | 0800201 | ELECTROLYTIC 33UF 16V |
| C1213 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1214 | 0800201 | ELECTROLYTIC 33UF 16V |
| C1215 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1216 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1217 | 0800201 | ELECTROLYTIC 33UF 16V |
| C122 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C123 | 0800051 | ELECTROLYTIC 100UF 25V |
| C124 | 0800107 | ELECTROLYTIC 0.47UF 50V |
| C125 | 0800023 | ELECTROLYITC 22UF 16V |
| C126 | 0800049 | ELECTROLYTIC 100UF 16V |
| C127 | 0880013 | POLYESTER FILM 0.033UF+−10% 50V |
| C128 | 0800049 | ELECTROLYTIC 100UF 16V |
| C129 | 0800015 | ELECTROLYTIC 10UF 16V |
| C130 | 0800051 | ELECTROLYTIC 100UF 25V |
| C131 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C132 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C133 | 0207458 | ELECTROLYTIC 10UF 25V |
| C134 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C135 | 0800057 | ELECTROLYTIC 220UF 10V |
| C136 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C137 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C138 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C139 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C140 | 0800041 | ELECTROLYTIC 47UF 16V |
| C141 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C142 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C143 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C144 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C145 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C146 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C147 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C148 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C149 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C150 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C151 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C152 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C153 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C154 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C155 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C156 | 0800041 | ELECTROLYTIC 47UF 16V |
| C157 | 0800041 | ELECTROLYTIC 47UF 16V |
| C158 | 0800041 | ELECTROLYTIC 47UF 16V |
| C159 | 0800041 | ELECTROLYTIC 47UF 16V |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| C160 | 0800041 | ELECTROLYTIC 47UF 16V | C365 | 0800022 | ELECTROLYTIC 22UF 10V |
| C161 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C366 | 0800022 | ELECTROLYTIC 22UF 10V |
| C162 | 0890031 | CERAMIC DISC 470PF+−10% 50V | C367 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C163 | 0890031 | CERAMIC DISC 470PF+−10% 50V | C368 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C164 | 0890031 | CERAMIC DISC 470PF+−10% 50V | C369 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C165 | 0890031 | CERAMIC DISC 470PF+−10% 50V | C370 | 0800023 | ELECTROLYITC 22UF 16V |
| C301 | 0800031 | ELECTROLYTIC 33UF 10V | C371 | 0800023 | ELECTROLYITC 22UF 16V |
| C302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C372 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C303 | 0800057 | ELECTROLYTIC 220UF 10V | C373 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C304 | 0800057 | ELECTROLYTIC 220UF 10V | C374 | 0800023 | ELECTROLYITC 22UF 16V |
| C305 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C375 | 0800023 | ELECTROLYITC 22UF 16V |
| C306 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C376 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C307 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C377 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C308 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C378 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C309 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C379 | 0800023 | ELECTROLYITC 22UF 16V |
| C310 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C380 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C311 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C381 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C312 | 0209641 | CERAMIC DISC 10000PF+−10% 16V | C383 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C314 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C384 | 0800122 | ELECTROLYTIC 10UF 16V |
| C315 | 0800122 | ELECTROLYTIC 10UF 16V | C385 | 0800022 | ELECTROLYTIC 22UF 10V |
| C317 | 0207463 | ELECTROLYTIC 100UF 10V | C386 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C319 | 0890092 | CERAMIC DISC 2200PF+−10% 50V | C387 | 0800122 | ELECTROLYTIC 10UF 16V |
| C320 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C388 | 0800022 | ELECTROLYTIC 22UF 10V |
| C321 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C389 | 0800058 | ELECTROLYTIC 220UF 16V |
| C322 | 0207458 | ELECTROLYTIC 10UF 25V | C390 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C323 | 0800122 | ELECTROLYTIC 10UF 16V | C391 | 0880016 | POLYESTER FILM 0.1UF+−10% 50V |
| C324 | 0890065 | CERAMIC DISC 22PF+−5% 50V | C392 | 0800041 | ELECTROLYTIC 47UF 16V |
| C325 | 0800118 | ELECTROLYTIC 4.7UF 35V | C393 | 0204274 | POLYESTER FILM 4700PF+−5% 100V |
| C326 | 0800109 | ELECTROLYTIC 1.0UF 50V | C394 | 0880005 | POLYESTER FILM 2200PF+−10% 50V |
| C327 | 0800122 | ELECTROLYTIC 10UF 16V | C395 | 0800182 | ELECTROLYTIC 22UF 16V |
| C328 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C396 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C329 | 0800041 | ELECTROLYTIC 47UF 16V | C397 | 0800122 | ELECTROLYTIC 10UF 16V |
| C330 | 0890102 | CERAMIC DISC 0.022UF+80−20% 50V | C398 | 0880011 | POLYESTER FILM 0.015UF+−10% 50V |
| C331 | 0800032 | ELECTROLYTIC 33UF 16V | C399 | 0800066 | ELECTROLYTIC 330UF 16V |
| C332 | 0890087 | CERAMIC 1000PF+−10% 50V | C400 | 0880014 | POLYESTER FILM 0.047UF+−10% 50V |
| C333 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V | C401 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C334 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V | C402 | 0880006 | POLYESTER FILM 3300PF+−10% 50V |
| C335 | 0254371 | ELECTROLYTIC 0.47UF 35V | C403 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C336 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V | C404 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C339 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C405 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C340 | 0800048 | ELECTROLYTIC 100UF 10V | C406 | 0204277 | POLYESTER FILM 1500PF+−5% 100V |
| C341 | 0800022 | ELECTROLYTIC 22UF 10V | C407 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C342 | 0800117 | ELECTROLYTIC 4.7UF 25V | C408 | 0204272 | POLYESTER FILM 3300PF+−5% 100V |
| C343 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C409 | 0800022 | ELECTROLYTIC 22UF 10V |
| C344 | 0890065 | CERAMIC DISC 22PF+−5% 50V | C410 | 0800048 | ELECTROLYTIC 100UF 10V |
| C345 | 0890064 | CERAMIC DISC 18PF+−5% 50V | C411 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C346 | 0207163 | TANTALUM 1.0UF+−10% 35V | C412 | 0800039 | ELECTROLYTIC 47UF 10V |
| C347 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C413 | 0800039 | ELECTROLYTIC 47UF 10V |
| C348 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C414 | 0800022 | ELECTROLYTIC 22UF 10V |
| C349 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C415 | 0800122 | ELECTROLYTIC 10UF 16V |
| C350 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C416 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C351 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C417 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C352 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C418 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C353 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C419 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C354 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C420 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C355 | 0800058 | ELECTROLYTIC 220UF 16V | C421 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C356 | 0800058 | ELECTROLYTIC 220UF 16V | C422 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C357 | 0800058 | ELECTROLYTIC 220UF 16V | C423 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C358 | 0800122 | ELECTROLYTIC 10UF 16V | C424 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C359 | 0800122 | ELECTROLYTIC 10UF 16V | C425 | 0890077 | CERAMIC DISC 180PF+−10% 50V |
| C360 | 0800122 | ELECTROLYTIC 10UF 16V | C426 | 0800057 | ELECTROLYTIC 220UF 10V |
| C361 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C427 | 0800057 | ELECTROLYTIC 220UF 10V |
| C362 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C428 | 0800057 | ELECTROLYTIC 220UF 10V |
| C363 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C429 | 0800022 | ELECTROLYTIC 22UF 10V |
| C364 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V | C430 | 0800122 | ELECTROLYTIC 10UF 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C431 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C440 | 0800023 | ELECTROLYITC 22UF 16V |
| C441 | 0207406 | ELECTROLYTIC 10UF 10V |
| C442 | 0207406 | ELECTROLYTIC 10UF 10V |
| C443 | 0207406 | ELECTROLYTIC 10UF 10V |
| C444 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C445 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C446 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C447 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C448 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C449 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C450 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C451 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C452 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C453 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C454 | 0800122 | ELECTROLYTIC 10UF 16V |
| C801 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C802 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C803 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C804 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C805 | 0806163 | ELECTROLYTIC 33UF 10V |
| C806 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C807 | 0806163 | ELECTROLYTIC 33UF 10V |
| C808 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C809 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C810 | 0806163 | ELECTROLYTIC 33UF 10V |
| C811 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C812 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C813 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C814 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C815 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C816 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C817 | 0806163 | ELECTROLYTIC 33UF 10V |
| C818 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C819 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C820 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C821 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C822 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C823 | 0806163 | ELECTROLYTIC 33UF 10V |
| C824 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C825 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C826 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C827 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C828 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C829 | 0806153 | ELECTROLYTIC 10UF 16V |
| C830 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C831 | 0806163 | ELECTROLYTIC 33UF 10V |
| C832 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C833 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C834 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C835 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C836 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C837 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C838 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C839 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C840 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C841 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C842 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C843 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C844 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C845 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C846 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C847 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C848 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C849 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C850 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C851 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C852 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C853 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C854 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C855 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C856 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C857 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C859 | 0806148 | ELECTROLYTIC 3.3UF 50V |
| C860 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C861 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C862 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C863 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C864 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C865 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C866 | 0806174 | ELECTROLYTIC 100UF 6.3V |
| C867 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C868 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C869 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C870 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C871 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C878 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C879 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| | | **RESISTORS** |
| RA101 | 5068327 | BLOCK,CR |
| RD001 | 0170341 | CARBON FILM 120OHM+−5%,1/8W |
| RD002 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD003 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD004 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD005 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD006 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD007 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD008 | 01703483 | CARBON FILM 470OHM+−5% 1/8W |
| RD009 | 0170345 | CARBON FILM 270OHM+−5% 1/8W |
| RD010 | 0170358 | CARBON FILM 3.3KOHM+−5% 1/8W |
| RF101 | 0170472 | FUSE RESISTOR 3.3OHM+−5% 1/4W |
| RF102 | 0170471 | FUSE RESISTOR 2.2OHM+−5% 1/4W |
| RF103 | 01704713 | FUSE RESISTOR 2.2OHM+−5% 1/4W |
| RT101 | 5007444 | SEMI VARIABLE 1KOHM |
| RT2001 | 5006255 | SEMI VARIABLE 2.2KOHM |
| RT301 | 5007443 | SEMI VARIABLE 470OHM |
| RT302 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT303 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT304 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT305 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT306 | 5007444 | SEMI VARIABLE 1KOHM |
| RT307 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT308 | 5007445 | SEMI VARIABLE 2.2KOHM |
| R101 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R102 | 0101756 | RESISTOR 1.0KOHM+−1% 1/8W |
| R1023 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1025 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1026 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R1027 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W |
| R1028 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W |
| R1029 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R103 | 0101763 | RESISTOR 4.7KOHM+−1% 1/8W |
| R1030 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1031 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R104 | 0700071 | CARBON FILM 180KOHM+−5% 1/8W |
| R105 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R106 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R107 | 0101759 | METAL FILM 2.2KOHM+−1% 1/8W |
| R108 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R109 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R121 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R110 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R122 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1101 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R123 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1102 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W | R124 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1103 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R125 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1104 | 0700038 | CARBON FILM 680OHM+−5% 1/8W | R126 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1105 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R127 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R1106 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1107 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R129 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1108 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R130 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R1109 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R131 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R111 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R132 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1110 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R133 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1111 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R134 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| R1112 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R135 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1113 | 1109023 | METAL FILM 75 OHM+−50% 1/8W | R136 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1114 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R137 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1115 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R138 | 0700028 | CARBON FILM 120OHM+−5% 1/8W |
| R1116 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W | R139 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R1117 | 0700029 | CARBON FILM 150OHM+−5% 1/8W | R140 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R1118 | 0700029 | CARBON FILM 150OHM+−5% 1/8W | R141 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1119 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R142 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R112 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R143 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1120 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R144 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1121 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R145 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1122 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R146 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1123 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R147 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1124 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R148 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1125 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R149 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |
| R1126 | 0700025 | CARBON FILM 68OHM+−5% 1/8W | R150 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1127 | 0101400 | CARBON FILM 75OHM+−5% 1/8W | R151 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| R1128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R152 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1129 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R153 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W |
| R113 | 0700027 | CARBON FILM 100OHM+−5% 1/8W | R154 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1130 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R155 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R1131 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R156 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W |
| R1132 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R157 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1133 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R158 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1134 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R159 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1135 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R160 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1136 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R161 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1137 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R162 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1138 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W | R163 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1139 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W | R164 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R114 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R165 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1140 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W | R166 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1141 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W | R167 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R1142 | 0700031 | CARBON FILM 180OHM+−5% 1/8W | R168 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1143 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R169 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1144 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R170 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R1145 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R171 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1146 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W | R172 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R115 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R173 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R116 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R174 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R117 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W | R175 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R118 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W | R176 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R119 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R177 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R120 | 0700031 | CARBON FILM 180OHM+−5% 1/8W | R178 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1201 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W | R180 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1202 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W | R181 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1203 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W | R183 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1204 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W | R184 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1205 | 0101829 | CARBON FILM 470OHM+−5% 1/4W | R186 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1206 | 0101821 | CARBON FILM 100OHM+−5% 1/4W | R187 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1207 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R188 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R189 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R190 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R191 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R194 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R195 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R196 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R197 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R198 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R199 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R200 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R201 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R202 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R203 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R204 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R205 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R207 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R208 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R209 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R210 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W |
| R211 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R212 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R213 | 0700073 | CARBON FILM 270KOHM+−5% 1/8W |
| R214 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R215 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R216 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R217 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R218 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R219 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R220 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R221 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R222 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R223 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R224 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R225 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R226 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R227 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R228 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R229 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R230 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R231 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R232 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R233 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R234 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R235 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R236 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R237 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R238 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R239 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R240 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R241 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R242 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R243 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R244 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R245 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R246 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R247 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R249 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R250 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R251 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R252 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R253 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R254 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R255 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R256 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R257 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R258 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R259 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R260 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R261 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R262 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R263 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R264 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R266 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R301 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R302 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R303 | 0700055 | CARBON FILM 12KOHM+−5% 1/8W |
| R304 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R305 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R307 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R309 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R310 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R311 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R312 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R322 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R324 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R325 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R329 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R330 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R332 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R333 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R334 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R335 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R336 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R337 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R338 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R339 | 0700039 | CARBON FILM 820OHM+−5% 1/8W |
| R340 | 0700037 | CARBON FILM 560OHM+−5% 1/8W |
| R341 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R342 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R343 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R344 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R345 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R347 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W |
| R348 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W |
| R349 | 1109038 | CHIP RESISTOR 1.2KOHM+−1% 1/8W |
| R350 | 0700076 | CARBON FILM 470KOHM+−5% 1/8W |
| R353 | 0700075 | CARBON FILM 390KOHM+−5% 1/8W |
| R354 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W |
| R355 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R356 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R357 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R358 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R359 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R360 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W |
| R361 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R362 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R367 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R368 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R369 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R370 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R371 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R372 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R373 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R374 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R375 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R376 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R377 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R378 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R379 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R380 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R447 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R381 | 0101400 | CARBON FILM 75OHM+-5% 1/8W | R448 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R382 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R449 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R383 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R450 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W |
| R384 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R451 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R385 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R452 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W |
| R386 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R453 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R387 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R454 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R388 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R455 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R389 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R456 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R390 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R457 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R391 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R458 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R392 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R459 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R393 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R460 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R394 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R461 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R395 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R462 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R396 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R463 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R397 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R464 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R398 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R465 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R399 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R466 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R400 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R467 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R401 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R468 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R402 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R469 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R403 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R470 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R404 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R471 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R405 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R472 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R406 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R473 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R407 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R474 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R408 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R475 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R409 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R476 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R410 | 0700068 | CARBON FILM 120KOHM+-5% 1/8W | R477 | 0700038 | CARBON FILM 680OHM+-5% 1/8W |
| R411 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W | R478 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R412 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W | R479 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R413 | 0700037 | CARBON FILM 560OHM+-5% 1/8W | R480 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R416 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W | R481 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R417 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W | R482 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R418 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W | R483 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R419 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W | R484 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R420 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W | R485 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R421 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W | R486 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R422 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R487 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R423 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W | R488 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R424 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R489 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R425 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W | R490 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R426 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W | R491 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R427 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R492 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R428 | 0700037 | CARBON FILM 560OHM+-5% 1/8W | R493 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R429 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R494 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R430 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R495 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R431 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W | R496 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R432 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R497 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R433 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R498 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R434 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W | R499 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R435 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R500 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R436 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W | R501 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R437 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R502 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R438 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W | R505 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R439 | 0700059 | CARBON FILM 27KOHM+-5% 1/8W | R506 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R440 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W | R507 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R441 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W | R508 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R442 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R509 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R443 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W | R513 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R444 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W | R514 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W |
| R445 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R515 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R446 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W | R516 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R517 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R518 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R519 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R520 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R521 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R522 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R523 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R524 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R525 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R526 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R527 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R801 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R802 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R803 | 0104264 | CHIP RESISTOR 510 OHM+−5% 0.1W |
| R804 | 0104116 | CHIP RESISTOR 39KOHM 1/10W |
| R805 | 0104111 | METAL FILM 10KOHM+−10% 1/10W |
| R806 | 0104123 | CHIP RESISTOR 8.2KOHM+−1% 1/10W |
| R807 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R808 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R809 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R810 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R811 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R812 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R813 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R814 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R818 | 0103879 | CHIP RESISTOR 1MOHM+−5% 0.1W |
| R819 | 0103831 | CHIP RESISTOR 100 OHM+−5% 0.1W |
| R820 | 0103831 | CHIP RESISTOR 100 OHM+−5% 0.1W |
| R821 | 0103831 | CHIP RESISTOR 100 OHM+−5% 0.1W |
| R822 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R823 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R824 | 0103848 | CHIP RESISTOR 2.7KOHM+−5% 0.1W |
| R825 | 0103843 | CHIP RESISTOR 1KOHM+−5% 0.1W |
| R826 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R827 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R828 | 0103855 | CHIP RESISTOR 10KOHM+−5% 0.1W |
| R829 | 0103841 | CHIP RESISTOR 680 OHM+−5% 0.1W |
| R830 | 0103847 | CHIP RESISTOR 2.2KOHM+−5% 0.1W |
| R831 | 0103851 | CHIP RESISTOR 4.7KOHM+−5% 0.1W |
| R832 | 0103849 | CHIP RESISTOR 3.3KOHM+−5% 0.1W |
| R833 | 0103851 | CHIP RESISTOR 4.7KOHM+−5% 0.1W |
| R901 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R902 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R903 | 0700032 | CARBON FILM 220 OHM+−5% 1/8W |
| R904 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R905 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R906 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R907 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R908 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R909 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |

## SEMI-CONDUCTORS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| DL303 | 5786411 | DELAY LINE |
| DL304 | 5165214 | DELAY LINE |
| DL306 | 5165341 | DELAY LINE |
| DL307 | 5165213 | DELAY LINE |
| DL308 | 5163483 | DELAY LINE |
| D101 | 5339141 | DIODE 1SS270 |
| D1012 | 5339141 | DIODE 1SS270 |
| D1013 | 5339141 | DIODE 1SS270 |
| D1014 | 5339141 | DIODE 1SS270 |
| D102 | 5339141 | DIODE 1SS270 |
| D103 | 5339141 | DIODE 1SS270 |
| D104 | 5339141 | DIODE 1SS270 |
| D105 | 5339141 | DIODE 1SS270 |
| D106 | 5339141 | DIODE 1SS270 |
| D107 | 5339141 | DIODE 1SS270 |
| D108 | 5339141 | DIODE 1SS270 |
| D109 | 5339141 | DIODE 1SS270 |
| D1101 | 5339141 | DIODE 1SS270 |
| D1102 | 5339141 | DIODE 1SS270 |
| D1103 | 5339141 | DIODE 1SS270 |
| D1104 | 5339141 | DIODE 1SS270 |
| D1105 | 5339141 | DIODE 1SS270 |
| D1106 | 5339141 | DIODE 1SS270 |
| D1107 | 5339141 | DIODE 1SS270 |
| D112 | 5339231 | DIODE 1SR35−100A |
| D113 | 5339231 | DIODE 1SR35−100A |
| D114 | 5339141 | DIODE 1SS270 |
| D115 | 5339141 | DIODE 1SS270 |
| D116 | 5339141 | DIODE 1SS270 |
| D117 | 5339141 | DIODE 1SS270 |
| D118 | 5339141 | DIODE 1SS270 |
| D119 | 5339141 | DIODE 1SS270 |
| D120 | 5339141 | DIODE 1SS270 |
| D1201 | 5339141 | DIODE 1SS270 |
| D121 | 5339141 | DIODE 1SS270 |
| D122 | 5339141 | DIODE 1SS270 |
| D123 | 5339141 | DIODE 1SS270 |
| D124 | 5339141 | DIODE 1SS270 |
| D125 | 5339141 | DIODE 1SS270 |
| D126 | 5339141 | DIODE 1SS270 |
| D127 | 5339141 | DIODE 1SS270 |
| D128 | 5339141 | DIODE 1SS270 |
| D130 | 5339141 | DIODE 1SS270 |
| D131 | 5339141 | DIODE 1SS270 |
| D132 | 5339141 | DIODE 1SS270 |
| D133 | 5339141 | DIODE 1SS270 |
| D134 | 5339141 | DIODE 1SS270 |
| D135 | 5339141 | DIODE 1SS270 |
| D136 | 5339141 | DIODE 1SS270 |
| D137 | 5339141 | DIODE 1SS270 |
| D138 | 5339141 | DIODE 1SS270 |
| D139 | 5339141 | DIODE 1SS270 |
| D140 | 5339141 | DIODE 1SS270 |
| D141 | 5339141 | DIODE 1SS270 |
| D142 | 5339141 | DIODE 1SS270 |
| D143 | 5339141 | DIODE 1SS270 |
| D144 | 5339141 | DIODE 1SS270 |
| D145 | 5339141 | DIODE 1SS270 |
| D146 | 5339141 | DIODE 1SS270 |
| D147 | 5339141 | DIODE 1SS270 |
| D181 | 5339141 | DIODE 1SS270 |
| D182 | 5339141 | DIODE 1SS270 |
| D183 | 5339141 | DIODE 1SS270 |
| D184 | 5339141 | DIODE 1SS270 |
| D185 | 5339141 | DIODE 1SS270 |
| D186 | 5339141 | DIODE 1SS270 |
| D187 | 5339141 | DIODE 1SS270 |
| D188 | 5339141 | DIODE 1SS270 |
| D189 | 5339141 | DIODE 1SS270 |
| D190 | 5339141 | DIODE 1SS270 |
| D191 | 5339141 | DIODE 1SS270 |
| D192 | 5339141 | DIODE 1SS270 |
| D193 | 5339141 | DIODE 1SS270 |
| D194 | 5339141 | DIODE 1SS270 |
| D195 | 5339141 | DIODE 1SS270 |
| D196 | 5339141 | DIODE 1SS270 |
| D197 | 5339141 | DIODE 1SS270 |
| D198 | 5339141 | DIODE 1SS270 |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D199 | 5339141 | DIODE 1SS270 |
| D200 | 5339141 | DIODE 1SS270 |
| D201 | 5339141 | DIODE 1SS270 |
| D202 | 5339141 | DIODE 1SS270 |
| D203 | 5339141 | DIODE 1SS270 |
| D204 | 5339141 | DIODE 1SS270 |
| D205 | 5339141 | DIODE 1SS270 |
| D206 | 5339141 | DIODE 1SS270 |
| D207 | 5339141 | DIODE 1SS270 |
| D208 | 5339141 | DIODE 1SS270 |
| D209 | 5339231 | DIODE 1SR35−100A |
| D210 | 5339141 | DIODE 1SS270 |
| D211 | 5339141 | DIODE 1SS270 |
| D213 | 5339141 | DIODE 1SS270 |
| D214 | 5339141 | DIODE 1SS270 |
| D215 | 5339141 | DIODE 1SS270 |
| D301 | 5339141 | DIODE 1SS270 |
| D302 | 5339141 | DIODE 1SS270 |
| D303 | 5339141 | DIODE 1SS270 |
| D304 | 5339141 | DIODE 1SS270 |
| D802 | 5328321 | DIODE MA151K (MH) |
| D803 | 5328321 | DIODE MA151K (MH) |
| D804 | 5328321 | DIODE MA151K (MH) |
| D805 | 5328321 | DIODE MA151K (MH) |
| D806 | 5328321 | DIODE MA151K (MH) |
| D807 | 5328321 | DIODE MA151K (MH) |
| D901 | 5339141 | DIODE 1SS270 |
| D902 | 5339141 | DIODE 1SS270 |
| D903 | 5339141 | DIODE 1SS270 |
| D904 | 5339141 | DIODE 1SS270 |
| D905 | 5339141 | DIODE 1SS270 |
| D906 | 5339141 | DIODE 1SS270 |
| D907 | 5339141 | DIODE 1SS270 |
| D908 | 5339141 | DIODE 1SS270 |
| D909 | 5339141 | DIODE 1SS270 |
| D910 | 5339141 | DIODE 1SS270 |
| IC101 | 1359991 | IC MB635120 |
| IC102 | 1342288 | IC M50558−112SP |
| IC103 | 1367401 | IC BR9021 |
| IC104 | 5301591 | IC SN74HC32N |
| IC105 | 5369911 | IC M54548L |
| IC106 | 5369171 | IC M54543L |
| IC107 | 5365673 | IC NJM2901N |
| IC108 | 5365673 | IC NJM2901N |
| IC109 | 1345791 | IC HA17807 |
| IC110 | 5366851 | IC HD74LS221P |
| IC1101 | 1360271 | IC HA118104 |
| IC1102 | 1360271 | IC HA118104 |
| IC1103 | 1360271 | IC HA118104 |
| IC111 | 5359921 | IC HD74LS74P |
| IC112 | 1343731 | IC HD74LS14P |
| IC113 | 1343721 | IC HD7406P |
| IC114 | 1343602 | IC SN74ALS574BN |
| IC115 | 1343931 | IC HD74LS244P |
| IC116 | 1340751 | IC HD74LS641P |
| IC117 | 1342242 | IC UPD4711A |
| IC1201 | 1362352 | IC NJM7809FA |
| IC1202 | 1360351 | IC NJM7805FA |
| IC1203 | 1360351 | IC NJM7805FA |
| IC1204 | 1360351 | IC NJM7805FA |
| IC1205 | 1362352 | IC NJM7809FA |
| IC301 | 1360271 | IC HA118104 |
| IC302 | 5300781 | IC M51489L |
| IC303 | 1345841 | IC NJM2233BL |
| IC304 | 1340731 | IC V7021 |
| IC305 | 1360271 | IC HA118104 |
| IC306 | 1345921 | IC UPD6336C |
| IC307 | 1362256 | IC NJM2904L |
| IC308 | 1361771 | IC M5216L |
| IC309 | 1362256 | IC NJM2904L |
| IC310 | 1362256 | IC NJM2904L |
| IC311 | 1345841 | IC NJM2233BL |
| IC312 | 1341661 | IC LM393 |
| IC313 | 5301411 | IC NJU74HC04D |
| IC314 | 1341661 | IC LM393 |
| IC315 | 5367091 | IC HA11423 |
| IC316 | 5301641 | IC UPD74HC221AC |
| IC317 | 1340681 | IC V7040 |
| IC318 | 1359451 | IC CXA1211M |
| IC319 | 1359451 | IC CXA1211M |
| IC801 | 1354352 | IC CXD1175AM |
| IC802 | 1354352 | IC CXD1175AM |
| IC803 | 1354352 | IC CXD1175AM |
| IC804 | 1340741 | IC CXD1178Q |
| IC805 | 1365906 | IC HD 6473378F10 VY—MXF04 |
| IC806 | 1365904 | IC HD 6473378F10 VY—MXS04A |
| IC807 | 1365771 | IC MB635127 |
| IC808 | 1343541 | IC SN74S124N |
| IC809 | 1359153 | IC HM514800LJP−8Z |
| IC810 | 1359153 | IC HM514800LJP−8Z |
| IC811 | 1359153 | IC HM514800LJP−8Z |
| IC812 | 1359153 | IC HM514800LJP−8Z |
| IC813 | 1359153 | IC HM514800LJP−8Z |
| IC814 | 1359153 | IC HM514800LJP−8Z |
| IC815 | 1359153 | IC HM514800LJP−8Z |
| IC816 | 1359153 | IC HM514800LJP−8Z |
| IC817 | 1359153 | IC HM514800LJP−8Z |
| IC818 | 1359153 | IC HM514800LJP−8Z |
| IC819 | 1359153 | IC HM514800LJP−8Z |
| IC820 | 1359153 | IC HM514800LJP−8Z |
| IC821 | 5366542 | IC PST520C2 |
| IC822 | 5364601 | IC M5278L05 |
| IC823 | 1365411 | IC HD74HC08FP |
| IC824 | 1365411 | IC HD74HC08FP |
| IC825 | 1365841 | IC HD74HC74FP |
| Q1004 | 5327071 | TRANSISTOR DTC124ES |
| Q1005 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1006 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1007 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q101 | 1320004 | TRANSISTOR 2SA854SQR |
| Q102 | 1320004 | TRANSISTOR 2SA854SQR |
| Q103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q105 | 5327076 | TRANSISTOR XDA144ES |
| Q106 | 5327071 | TRANSISTOR DTC124ES |
| Q107 | 5327252 | TRANSISTOR DTC114YS |
| Q108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q110 | 5324631 | TRANSISTOR 2SA1390C |
| Q1101 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1102 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1105 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1106 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1107 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q111 | 5324631 | TRANSISTOR 2SA1390C |
| Q1110 | 5327061 | TRANSISTOR 2SC1740S−ST |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q112 | 5324631 | TRANSISTOR 2SA1390C |
| Q113 | 5324631 | TRANSISTOR 2SA1390C |
| Q114 | 5327071 | TRANSISTOR DTC124ES |
| Q115 | 5327071 | TRANSISTOR DTC124ES |
| Q116 | 5327071 | TRANSISTOR DTC124ES |
| Q119 | 5327072 | TRANSISTER DTA124ES |
| Q120 | 5327071 | TRANSISTOR DTC124ES |
| Q1201 | 1321321 | TRANSISTOR 2SB1187(E/F) |
| Q1202 | 5327021 | TRANSISTOR 2SA844CD |
| Q1203 | 5327071 | TRANSISTOR DTC124ES |
| Q121 | 5327072 | TRANSISTER DTA124ES |
| Q122 | 5327071 | TRANSISTOR DTC124ES |
| Q123 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q124 | 5327071 | TRANSISTOR DTC124ES |
| Q125 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q126 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q127 | 5324111 | TRASISTOR 2SD1209 |
| Q128 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q306 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q309 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q310 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q311 | 5327071 | TRANSISTOR DTC124ES |
| Q312 | 1320004 | TRANSISTOR 2SA854SQR |
| Q313 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q314 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q320 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q321 | 1320004 | TRANSISTOR 2SA854SQR |
| Q322 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q323 | 1320004 | TRANSISTOR 2SA854SQR |
| Q324 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q325 | 1320004 | TRANSISTOR 2SA854SQR |
| Q326 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q327 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q328 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q329 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q330 | 1320004 | TRANSISTOR 2SA854SQR |
| Q331 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q332 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q333 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q334 | 1320004 | TRANSISTOR 2SA854SQR |
| Q335 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q336 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q337 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q338 | 1320004 | TRANSISTOR 2SA854SQR |
| Q339 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q340 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q341 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q342 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q343 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q344 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q345 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q346 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q347 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q348 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q349 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q350 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q351 | 1320004 | TRANSISTOR 2SA854SQR |
| Q352 | 1320004 | TRANSISTOR 2SA854SQR |
| Q353 | 1320004 | TRANSISTOR 2SA854SQR |
| Q354 | 1320004 | TRANSISTOR 2SA854SQR |
| Q358 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q359 | 1320004 | TRANSISTOR 2SA854SQR |
| Q801 | 5328962 | TRANSISTOR 2SA1037K |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q802 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q803 | 5328962 | TRANSISTOR 2SA1037K |
| Q804 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q901 | 5327071 | TRANSISTOR DTC124ES |
| Q902 | 5327071 | TRANSISTOR DTC124ES |
| Q903 | 5327071 | TRANSISTOR DTC124ES |
| ZD101 | 5339251 | DIODE HZS2−C3 |
| ZD103 | 5339265 | DIODE HZS9−B3 |
| ZD104 | 5339251 | DIODE HZS2−C3 |
| ZD141 | 5339297 | DIODE HZS5C3 |
| ZD301 | 5339481 | DIODE HZS2B3 |
| ZD304 | 5339257 | DIODE HZS4 |
| ZD306 | 5339291 | DIODE HZS3B1 |

## COILS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| LD101 | 5381668 | LED SLH34MT3 |
| LD102 | 5381668 | LED SLH34MT3 |
| LD103 | 5381668 | LED SLH34MT3 |
| LD104 | 5381668 | LED SLH34MT3 |
| LD901 | 5381667 | LED SLH34MT3 |
| LD902 | 5381001 | LED SLR−34URC5 |
| LD903 | 5381001 | LED SLR−34URC5 |
| L101 | 0770057 | CHOKE COIL 100UH+−5% |
| L102 | 0770046 | CHOKE COIL 15UH+−5% |
| L1101 | 0770044 | CHOKE COIL 10UH+−5% |
| L1102 | 0770044 | CHOKE COIL 10UH+−5% |
| L141 | 5159147 | CHOKE COIL 33UH |
| L302 | 0770057 | CHOKE COIL 100UH+−5% |
| L303 | 0770066 | CHOKE COIL 470UH+−5% |
| L304 | 0770057 | CHOKE COIL 100UH+−5% |
| L305 | 0770044 | CHOKE COIL 10UH+−5% |
| L306 | 0770062 | CHOKE COIL 220UH+−5% |
| L307 | 0770057 | CHOKE COIL 100UH+−5% |
| L309 | 0770057 | CHOKE COIL 100UH+−5% |
| L801 | 0773001 | CHOCE COIL 10UH+−10% |
| L802 | 0773001 | CHOCE COIL 10UH+−10% |
| L803 | 0773001 | CHOCE COIL 10UH+−10% |
| L804 | 0773001 | CHOCE COIL 10UH+−10% |
| L805 | 0773001 | CHOCE COIL 10UH+−10% |

## CRYSTALS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| XL301 | 5780651 | 3.58MHZ XTAL |
| XL801 | 5778431 | CRYSTAL |
| XL802 | 5778842 | OSCILLATOR |
| XL803 | 5778842 | OSCILLATOR |

## MISCELLANEOUS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC101 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC102 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC103 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC104 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC105 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC106 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC107 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC108 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC109 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC110 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1102 | 0235362 | LINE FILTER |
| BC1103 | 0235362 | LINE FILTER |
| BC1104 | 0235362 | LINE FILTER |
| BC1105 | 0235362 | LINE FILTER |
| BC1106 | 0235362 | LINE FILTER |
| BC1107 | 0235362 | LINE FILTER |
| BC1108 | 0235362 | LINE FILTER |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC1109 | 0235362 | LINE FILTER |
| BC111 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1110 | 0235362 | LINE FILTER |
| BC112 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC113 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC114 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC115 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC116 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC117 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC118 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC119 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC141 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC142 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC143 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC144 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC303 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC304 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC801 | 0235363 | LINE FILTER |
| BL101 | 5272378 | LC FILTER |
| BL102 | 5272378 | LC FILTER |
| BL103 | 5272378 | LC FILTER |
| BL104 | 5272378 | LC FILTER |
| BL105 | 5272378 | LC FILTER |
| BL106 | 5272378 | LC FILTER |
| BL107 | 5272378 | LC FILTER |
| BL108 | 5272378 | LC FILTER |
| BL109 | 5272378 | LC FILTER |
| BL110 | 5272378 | LC FILTER |
| BL111 | 5272378 | LC FILTER |
| BL112 | 5272378 | LC FILTER |
| BL113 | 5272378 | LC FILTER |
| BL114 | 5272378 | LC FILTER |
| BU1001 | 5409273 | BUZZER |
| CN1116 | 5843881 | CONNECTOR |
| CN1117 | 5843882 | CONNECTOR |
| CN1121 | 5844719 | CONNECTOR |
| CP303 | 5164893 | FILTER,BAND PASS |
| CP307 | 5163463 | LOW PASS FILTER |
| CP308 | 5163463 | LOW PASS FILTER |
| CP309 | 5163463 | LOW PASS FILTER |
| CT801 | 5058576 | CAPACTOR TRIMMER |
| GL001 | 5382391 | DIDOE GL−471 |
| GPS01 | 5382062 | DIODE GP1S06E |
| GPS02 | 5382351 | DIDOE GP2S05J |
| GPS03 | 5333391 | TRANSISTOR NJL5161K |
| GPS04 | 5333391 | TRANSISTOR NJL5161K |
| GPS05 | 5382382 | DIODE GP2S07B |
| GPS06 | 5382382 | DIODE GP2S07B |
| GPS07 | 5382382 | DIODE GP2S07B |
| GPS08 | 5382382 | DIODE GP2S07B |
| GPS09 | 5382351 | DIDOE GP2S05J |
| GPS10 | 5382053 | IC GP2S04B |
| J101 | 5695641 | PLUG |
| J102 | 5694934 | JACK |
| J103 | 5694862 | JACK |
| J1101 | 5699341 | PLUG |
| J1102 | 5699341 | PLUG |
| J1103 | 5699341 | PLUG |
| J1104 | 5699341 | PLUG |
| J1105 | 5699341 | PLUG |
| J1106 | 5699341 | PLUG |
| J1107 | 5699341 | PLUG |
| J1108 | 5699341 | PLUG |
| J1109 | 5699341 | PLUG |
| J1110 | 5699341 | PLUG |
| J301 | 5655091 | PLUG |
| J302 | 5655091 | PLUG |
| MSW01 | 5610811 | SWITCH,MODE |
| PG110 | 5661814 | MINI PLUG |
| PG811 | 5669351 | CONNECTOR |
| PG812 | 5669352 | CONNECTOR |
| PG813 | 5669351 | CONNECTOR |
| PG814 | 5669351 | CONNECTOR |
| PG910 | 5661824 | MINI PLUG |
| SWP02 | 5633693 | SWITCH |
| S101 | 5635113 | SWITCH |
| S102 | 5635113 | SWITCH |
| S103 | 5635113 | SWITCH |
| S104 | 5635113 | SWITCH |
| S105 | 5635113 | SWITCH |
| S106 | 5635113 | SWITCH |
| S1101 | 5621784 | SWITCH |
| S1102 | 5621463 | SWITCH |
| S1103 | 5610931 | SWITCH |
| S1104 | 5621784 | SWITCH |
| S901 | 5634921 | SWITCH |
| S902 | 5635061 | SWITCH |
| S903 | 5635061 | SWITCH |
| S904 | 5635061 | SWITCH |
| S905 | 5635061 | SWITCH |
| S906 | 5635061 | SWITCH |
| S907 | 5635061 | SWITCH |
| S907 | 5635231 | SWITCH |
| TPS01 | 1321602 | TRANSISTOR TPS605 |

# 4. MECHANICAL PARTS LIST 〔VY-300 (A)〕

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **FOR FINAL ASSEMBLY** |
| 101 | 6006718 | COVER, TOP |
| 102 | 4720189 | PANEL, FRONT |
| 103 | 6487315 | COVER.INK |
| 104 | 4721393 | COVER, CONTROL |
| 105 | 6484653 | COVER,PAPER |
| 106 | 4890483 | BRACKET |
| 107 | 6009442 | COVER, REAR (L) |
| 108 | 6009458 | COVER, REAR (R) |
| 110 | 6893561 | LATCH |
| 112 | 6811721 | BRACKET |
| 115 | 6809961 | BRACKET, PWB (A) |
| 116 | 6809982 | HOLDER, CBA |
| 117 | 6813761 | BRACKET |
| 118 | 6528221 | PLATE, EARTH |
| 119 | 4899941 | BRACKET |
| 120 | 6338271 | SHAFT |
| 121 | 5273855 | SWITCHING REGULATOR |
| 126 | 6552751 | SPRING |
| 127 | 4520651 | HOLDER |
| 128 | 4520652 | HOLDER |
| 129 | 7230901 | E RING FOR SPRING MOUNTING |
| 130 | 6072702 | KNOB |
| 131 | 6324432 | PREVENTION SPRING |
| 132 | 6813891 | DAMPER |
| 142 | 6438001 | LEG |
| 136 | 6006721 | COVER, BOTTOM |
| 137 | 6808681 | FELT, LEG |
| 138 | 4890391 | BRACKET |
| 139 | 6813812 | LEVER |
| 140 | 6813821 | LEVER |
| 141 | 7709091 | WASHER |
| 142 | 6303471 | SPRING |
| 151 | 4950351 | PROTECTOR |
| 201 | 6415936 | REEL TABLE (T) |
| 202 | 6822551 | ARM |
| 203 | 7778859 | POLYSLIDER WASHER |
| 204 | 4583011 | MOTOR |
| 205 | 6556461 | SPRING |
| 206 | 6347961 | WORM |
| 207 | 6440112 | GEAR |
| 208 | 6806721 | BASE |
| 209 | 6564334 | DRUM |
| 210 | 5579341 | MOTOR, LOADING |
| 211 | 4512211 | HOLDER, SHAFT |
| 212 | 6416482 | REEL TABLE (S) |
| 213 | 7442062 | BRACKET |
| 215 | 6527601 | SPRING |
| 216 | 6901041 | REEL CHASSIS |
| 217 | 7467223 | MOTOR, LOADING |
| 218 | 6807022 | GUIDE |
| 220 | 6437381 | GEAR |
| 221 | 7873811 | GEAR ASSY |
| 222 | 6523452 | SPRING |
| 223 | 6806702 | ARM |
| 224 | 6820271 | ARM |
| 225 | 6543131 | SPRING |
| 226 | 6437412 | GEAR |
| 227 | 6556482 | SPRING |
| 228 | 6556481 | SPRING |
| 229 | 7786112 | POL SLIDER WASHER |
| 230 | 7474841 | PLATE |
| 231 | 4583081 | SLIDER |
| 232 | 6523915 | SPRING |
| 233 | 4512201 | HOLDER, SHAFT |
| 234 | 7786113 | POLYESTER SLIDER WASHER |
| 235 | 6437451 | GEAR |
| 236 | 6347983 | GEAR |
| 237 | 7469181 | PLATE |
| 238 | 6552311 | SPRING |
| 239 | 7467202 | ARM |
| 240 | 6437401 | GEAR |
| 241 | 6347971 | GEAR |
| 242 | 7789311 | WASHER |
| 243 | 6378321 | PLATE |
| 244 | 7786119 | POLISLIDER WASHER |
| 246 | 7473042 | ARM |
| 247 | 7442081 | BRACKET |
| 248 | 5610811 | MODE SWITCH |
| 250 | 7138886 | CHASSIS (L) |
| 251 | 7139231 | SHASSIS |
| 252 | 6807051 | HOLDER |
| 256 | 5443531 | THERMAL HEAD |
| 257 | 6558163 | SPRING |
| 258 | 6806841 | GUIDE |
| 259 | 6558162 | SPRING |
| 260 | 1620301 | PWB ASSY INK SENSOR (IS) |
| 268 | 6807002 | GUIDE |
| 269 | 6807013 | GUIDE |
| 271 | 1605962 | PWB ASSY PAPER SENSOR I |
| 282 | 1710031 | FAN |
| 301 | 7132708 | PAPER SUPPLY MECHANISM ASSY |
| 302 | 6564274 | ROLLER |
| 303 | 6564292 | ROLLER |
| 304 | 6300081 | SPRING |
| 305 | 4512121 | HOLDER |
| 306 | 6357692 | BELT |
| 307 | 6806742 | ARM |
| 308 | 6806751 | ARM |
| 309 | 6552041 | SPRING |
| 310 | 1605976 | PWB ASSY SWITCH/PAPER |
| 311 | 7787578 | WASHER |
| 312 | 6440122 | GEAR |
| 313 | 6820432 | HOLDER |
| 314 | 7467213 | ARM |
| 315 | 6564362 | GEAR |
| 316 | 6437361 | GEAR |
| 319 | 6564341 | ROLLER |
| 320 | 4583041 | TRAY |
| 321 | 6529991 | SPRING |
| 322 | 6424441 | ROLLER |
| 323 | 6806872 | TRAY |
| 324 | 6806761 | ARM |
| 325 | 6806771 | ARM |
| 326 | 6806733 | LEVER |
| 327 | 4583091 | PLATE |
| 328 | 6556491 | SPRING |
| 329 | 6527591 | SPRING |
| 336 | 7778859 | POLYSLIDER WASHER |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 337 | 4583061 | ARM |
| 338 | 4583051 | ARM |
| 339 | 4583071 | ARM |
| 340 | 6424451 | ROLLER |
| 341 | 6556302 | SPRING |
| 342 | 6300844 | SPRING |
| 343 | 4712961 | TRAY |
| 901 | 7784114 | SCREW(3X6) |
| 902 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 903 | 8744406 | BINDING SCREW—3MMD×6MM |
| 904 | 8691410 | SCREW |
| 907 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 908 | 87411063 | SCREW (2X6) |
| 909 | 8744406 | BINDING SCREW – 3MMD X 6MM |
| 951 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 952 | 8741412 | SCREW (B3X12) |
| 953 | 8741108 | SCREW (2X8) |
| 954 | 7707531 | WASHER |
| 955 | 7774942 | E RING |
| 956 | 8741403 | BIND SCREW—3MMDX3MM |
| 957 | 8691405 | SCREW(3X5) |
| 958 | 87414303 | BIND SCREW—3MMDX30MM |
| 959 | 8812114 | WASHER – 3MMD SMALL |
| 960 | 8813114 | SPRING WASHER—3MMD |
| 961 | 0711304 | PAN HEAD SCREW—2.6MMD×4MM |
| | | **FOR ACCESSARIES** |
| 802 | 5617196 | REMOTE HAND SET |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|

# 5. ELECTRICAL PARTS LIST 〔VY-300 (E)〕

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| | | **CAPACITORS** |
| CT1001 | 5058563 | TRIMMER |
| CT801 | 5058576 | CAPACTOR TRIMMER |
| C1001 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1002 | 0890069 | CERAMIC DISC 47PF+−5% 50V |
| C1004 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C1005 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1007 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1008 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1009 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C101 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1011 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C1012 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1016 | 0890037 | CERAMIC DISC 2200PF+−20% 16V |
| C1017 | 0890037 | CERAMIC DISC 2200PF+−20% 16V |
| C1018 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C102 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C103 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C105 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C107 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C1104 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1110 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1111 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1114 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1115 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1116 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1118 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1119 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C112 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1120 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1121 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1127 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1128 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C113 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1130 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1131 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1132 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1133 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1138 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1139 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C114 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C115 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C117 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1205 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1207 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1208 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| ⚠C121 | 0880015 | POLYESTER FILM 0.068UF+−10% 50V |
| C1210 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1211 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1213 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1215 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C1216 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C122 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C127 | 0880013 | POLYESTER FILM 0.033UF+−10% 50V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C1301 | 0890074 | CERAMIC DISC 100PF+−5% 50V |
| C1302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C131 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C132 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C134 | 0890044 | CERAMIC DISC 0.022UF+80−20% 25V |
| C136 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C137 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C138 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C139 | 0880009 | POLYESTER FILM 0.01UF+−10% 50V |
| C141 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C142 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C143 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C144 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C145 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C146 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C147 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C148 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C149 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C150 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C151 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C152 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C153 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C154 | 0890022 | CERAMIC DISC 100PF+−10% 50V |
| C155 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C161 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C162 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C163 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C164 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C165 | 0890031 | CERAMIC DISC 470PF+−10% 50V |
| C302 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C305 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C306 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C307 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C308 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C309 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C310 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C311 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C312 | 0209641 | CERAMIC DISC 10000PF+−10% 16V |
| C314 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C319 | 0890092 | CERAMIC DISC 2200PF+−10% 50V |
| C320 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C321 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C324 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C328 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C330 | 0890102 | CERAMIC DISC 0.022UF+80−20% 50V |
| C332 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C333 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C334 | 0890103 | CERAMIC DISC 47000PF+80−20% 12V |
| C336 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C337 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C338 | 0890101 | CERAMIC DISC 0.01UF+−20% 16V |
| C339 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C343 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C344 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C345 | 0890065 | CERAMIC DISC 22PF+−5% 50V |
| C346 | 0207163 | TANTALUM 1.0UF+−10% 35V |
| C347 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C348 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C349 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C350 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| C351 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C352 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C353 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C354 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C361 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C362 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C363 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C364 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C367 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C368 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C369 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C372 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C373 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C376 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C377 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C378 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C380 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C381 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C383 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C386 | 0890087 | CERAMIC 1000PF+−10% 50V |
| C390 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C391 | 0880016 | POLYESTER FILM 0.1UF+−10% 50V |
| C393 | 0204274 | POLYESTER FILM 4700PF+−5% 100V |
| C394 | 0880005 | POLYESTER FILM 2200PF+−10% 50V |
| C396 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C398 | 0880011 | POLYESTER FILM 0.015UF+−10% 50V |
| C400 | 0880014 | POLYESTER FILM 0.047UF+−10% 50V |
| C401 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C402 | 0880006 | POLYESTER FILM 3300PF+−10% 50V |
| C403 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C404 | 0880008 | POLYESTER FILM 6800PF+−10% 50V |
| C405 | 0880003 | POLYESTER FILM 1000PF+−10% 50V |
| C406 | 0204277 | POLYESTER FILM 1500PF+−5% 100V |
| C407 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C408 | 0204272 | POLYESTER FILM 3300PF+−5% 100V |
| C411 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C416 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C417 | 0890064 | CERAMIC DISC 18PF+−5% 50V |
| C418 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C419 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C420 | 0890043 | CERAMIC DISC 0.01UF+−20% 16V |
| C421 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C422 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C423 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C424 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C425 | 0890075 | CERAMIC DISC 120PF+−5% 50V |
| C431 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C444 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C445 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C446 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C447 | 0890046 | CERAMIC DISC 0.1UF+80−20% 50V |
| C448 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C449 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C450 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C451 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C452 | 0890028 | CERAMIC DISC 330PF+−10% 50V |
| C453 | 0209647 | CERAMIC DISC 0.1UF+−10% 16V |
| C801 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C802 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C803 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C804 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C806 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C808 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C809 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C811 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C812 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C813 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C814 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C815 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C816 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C818 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C819 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C820 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C821 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C822 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C824 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C825 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C826 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C827 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C828 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C830 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C832 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C833 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C834 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C835 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C836 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C837 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C838 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C839 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C840 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C841 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C842 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C843 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C844 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C845 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C846 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C847 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C848 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C849 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C850 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C851 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C852 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C853 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C854 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C855 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C856 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C857 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C860 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C861 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C862 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C863 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C864 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C865 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C867 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C868 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C869 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C870 | 0209893 | CERAMIC CHIP 22PF+−10% 50V |
| C871 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C878 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |
| C879 | 0893055 | CERAMIC CHIP 0.1UF+80−20% 16V |

## RESISTORS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| RA101 | 5068327 | BLOCK,CR |
| RD001 | 0170341 | CARBON FILM 120OHM+−5%,1/8W |
| RD002 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD003 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD004 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD005 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD006 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |
| RD007 | 0170348 | CARBON FILM 470OHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| RD008 | 01703483 | CARBON FILM 470OHM+−5% 1/8W |
| RD009 | 0170345 | CARBON FILM 270OHM+−5% 1/8W |
| RD010 | 0170358 | CARBON FILM 3.3KOHM+−5% 1/8W |
| RF101 | 0170472 | FUSE RESISTOR 3.3OHM+−5% 1/4W |
| RF102 | 0101711 | FUSE RESISTOR 2.2OHM+−5% 1/4W |
| RF103 | 0101711 | FUSE RESISTOR 2.2OHM+−5% 1/4W |
| RT101 | 5007444 | SEMI VARIABLE 1KOHM |
| RT2001 | 5006255 | SEMI VARIABLE 2.2KOHM |
| RT301 | 5007443 | SEMI VARIABLE 470OHM |
| RT302 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT303 | 5007442 | RESISTOR SEMI VARIABLE 220OHM |
| RT304 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT305 | 5007446 | SEMI VARIABLE 4.7KOHM |
| RT306 | 5007444 | SEMI VARIABLE 1KOHM |
| RT307 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT308 | 5007445 | SEMI VARIABLE 2.2KOHM |
| RT310 | 5007444 | SEMI VARIABLE 1KOHM |
| R1001 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1002 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1003 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1004 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1005 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1006 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R1007 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1008 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1009 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R101 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R1010 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1011 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R1012 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R1013 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R1014 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1015 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1016 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R1017 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W |
| R1018 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1019 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R102 | 0101756 | RESISTOR 1.0KOHM+−1% 1/8W |
| R1020 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R1021 | 0700043 | CARBON FILM 1.5KOHM+−5% 1/8W |
| R1022 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1023 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1025 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1026 | 0700048 | CARBON FILM 3.9KOHM+−5% 1/8W |
| R1027 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W |
| R1028 | 0700053 | CARBON FILM 8.2KOHM+−5% 1/8W |
| R1029 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R103 | 0101763 | RESISTOR 4.7KOHM+−1% 1/8W |
| R1030 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R1031 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1032 | 0171096 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R104 | 0700071 | CARBON FILM 180KOHM+−5% 1/8W |
| R105 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R106 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R107 | 0101759 | METAL FILM 2.2KOHM+−1% 1/8W |
| R108 | 0101766 | CHIP RESISTOR 12KOHM+−1% 1/8W |
| R109 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R110 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1101 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R1102 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R1103 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1104 | 0700038 | CARBON FILM 680OHM+−5% 1/8W |
| R1105 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R1106 | 1109023 | METAL FILM 75 OHM+−50% 1/8W |
| R1107 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R1108 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1109 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R111 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1110 | 1109023 | METAL FILM 75 OHM+−50% 1/8W |
| R1111 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1112 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1113 | 1109023 | METAL FILM 75 OHM+−50% 1/8W |
| R1114 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1115 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1116 | 0700032 | RESISTOR 220 OHM+−5% 1/8W |
| R1117 | 0700029 | CARBON FILM 150OHM+−5% 1/8W |
| R1118 | 0700029 | CARBON FILM 150OHM+−5% 1/8W |
| R1119 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R112 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1120 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R1121 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R1122 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W |
| R1123 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R1124 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R1125 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R1126 | 0700025 | CARBON FILM 68OHM+−5% 1/8W |
| R1127 | 0101400 | CARBON FILM 75OHM+−5% 1/8W |
| R1128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1129 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R113 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R1130 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R1131 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1132 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W |
| R1133 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W |
| R1134 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W |
| R1135 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W |
| R1136 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W |
| R1137 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W |
| R1138 | 0101749 | CHIP RESISTOR 270 OHM+−1% 1/8W |
| R1139 | 0101745 | CHIP RESISTOR 100 OHM+−1% 1/8W |
| R114 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1140 | 0101754 | CHIP RESISTOR 560 OHM+−1% 1/8W |
| R1141 | 0700044 | CARBON FILM 1.8KOHM+−5% 1/8W |
| R1142 | 0700031 | CARBON FILM 180OHM+−5% 1/8W |
| R1143 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R1144 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R1145 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R1146 | 0700081 | CARBON FILM 1.0MOHM+−5% 1/8W |
| R115 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R116 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R117 | 0700072 | CARBON FILM 220KOHM+−5% 1/8W |
| R118 | 0700057 | CARBON FILM 18KOHM+−5% 1/8W |
| R119 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R120 | 0700031 | CARBON FILM 180OHM+−5% 1/8W |
| R1201 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W |
| R1202 | 0101825 | CARBON FILM 220 OHM+−5% 1/4W |
| R1203 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W |
| R1204 | 0101824 | CARBON FILM 180 OHM+−5% 1/4W |
| R1205 | 0101829 | CARBON FILM 470OHM+−5% 1/4W |
| R1206 | 0101821 | CARBON FILM 100OHM+−5% 1/4W |
| R1207 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W |
| R121 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R122 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R123 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R124 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R125 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R126 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R127 | 0700046 | CARBON FILM 2.7KOHM+−5% 1/8W |
| R128 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R129 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R130 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R184 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1301 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R186 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1302 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R187 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1303 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R188 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1304 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R189 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1305 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R190 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R1306 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R191 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R1307 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R192 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R1308 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R193 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1309 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R194 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R131 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R195 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1311 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R196 | 0700034 | CARBON FILM 330OHM+−5% 1/8W |
| R1313 | 0700045 | CARBON FILM 2.2KOHM+−5% 1/8W | R197 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1314 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W | R198 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R1315 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R199 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R132 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W | R200 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R133 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R201 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R134 | 0700038 | CARBON FILM 680OHM+−5% 1/8W | R202 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R135 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R203 | 0700027 | CARBON FILM 100OHM+−5% 1/8W |
| R136 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R205 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W |
| R137 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R207 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R138 | 0700028 | CARBON FILM 120OHM+−5% 1/8W | R208 | 0700042 | CARBON FILM 1.2KOHM+−5% 1/8W |
| R139 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R209 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R140 | 0700036 | CARBON FILM 470OHM+−5% 1/8W | R210 | 0101765 | RESISTOR 10KOHM+−0.1% 1/8W |
| R141 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R211 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R142 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R212 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R143 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R213 | 0700073 | CARBON FILM 270KOHM+−5% 1/8W |
| R144 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R214 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R145 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R215 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R146 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R216 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W |
| R147 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R217 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R148 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W | R218 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R149 | 0700059 | CARBON FILM 27KOHM+−5% 1/8W | R219 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W |
| R150 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R220 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W |
| R151 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W | R221 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R152 | 0700054 | CARBON FILM 10KOHM+−5% 1/8W | R222 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R153 | 0700051 | CARBON FILM 5.6KOHM+−5% 1/8W | R223 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R154 | 0700067 | CARBON FILM 100KOHM+−5% 1/8W | R224 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R155 | 0700056 | CARBON FILM 15KOHM+−5% 1/8W | R225 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R156 | 0700052 | CARBON FILM 6.8KOHM+−5% 1/8W | R226 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R157 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W | R227 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R158 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W | R228 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R159 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R229 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R160 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R230 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R161 | 0700065 | CARBON FILM 68KOHM+−5% 1/8W | R231 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R162 | 0700061 | CARBON FILM 33KOHM+−5% 1/8W | R232 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R163 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R233 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R164 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R234 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R165 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R235 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R166 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R236 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R167 | 0700063 | CARBON FILM 47KOHM+−5% 1/8W | R237 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R168 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R238 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R169 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R239 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R170 | 0700058 | CARBON FILM 22KOHM+−5% 1/8W | R240 | 0700018 | CARBON FILM 22OHM+−5% 1/8W |
| R171 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R241 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R172 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R242 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R173 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R243 | 0700049 | CARBON FILM 4.7KOHM+−5% 1/8W |
| R174 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R244 | 0700047 | CARBON FILM 3.3KOHM+−5% 1/8W |
| R175 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R245 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R176 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R246 | 0700069 | CARBON FILM 150KOHM+−5% 1/8W |
| R177 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R247 | 0700036 | CARBON FILM 470OHM+−5% 1/8W |
| R178 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R249 | 0700032 | RESISTOR 220 OHM+−5% 1/8W |
| R180 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R250 | 0700032 | RESISTOR 220 OHM+−5% 1/8W |
| R181 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R251 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |
| R183 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W | R252 | 0700041 | CARBON FILM 1.0KOHM+−5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| R253 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R375 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R254 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R376 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R255 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R377 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R256 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R378 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R257 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R379 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R258 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R380 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R259 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R381 | 0101400 | CARBON FILM 75OHM+-5% 1/8W |
| R260 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R382 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R261 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R383 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R262 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R384 | 0700039 | CARBON FILM 820OHM+-5% 1/8W |
| R263 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R385 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R264 | 0700027 | CARBON FILM 100OHM+-5% 1/8W | R386 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R266 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R387 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R301 | 0101400 | CARBON FILM 75OHM+-5% 1/8W | R388 | 0700039 | CARBON FILM 820OHM+-5% 1/8W |
| R302 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R389 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R303 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W | R390 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R304 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R391 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R305 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R392 | 0700039 | CARBON FILM 820OHM+-5% 1/8W |
| R307 | 0101400 | CARBON FILM 75OHM+-5% 1/8W | R393 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R308 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W | R394 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R309 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W | R395 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R310 | 0700039 | CARBON FILM 820OHM+-5% 1/8W | R396 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R311 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R397 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R312 | 0700025 | CARBON FILM 68OHM+-5% 1/8W | R398 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R322 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W | R399 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R323 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W | R400 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R324 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R401 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R325 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R402 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R332 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W | R403 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R333 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W | R404 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R334 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W | R405 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R335 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R406 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R336 | 0700036 | CARBON FILM 470OHM+-5% 1/8W | R407 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R338 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R408 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R339 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R409 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R340 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R410 | 0700068 | CARBON FILM 120KOHM+-5% 1/8W |
| R341 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W | R411 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R342 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W | R412 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R343 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W | R413 | 0700037 | CARBON FILM 560OHM+-5% 1/8W |
| R344 | 0700032 | RESISTOR 220 OHM+-5% 1/8W | R416 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R345 | 0700069 | CARBON FILM 150KOHM+-5% 1/8W | R417 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W |
| R347 | 0101766 | CHIP RESISTOR 12KOHM+-1% 1/8W | R418 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W |
| R348 | 0101765 | RESISTOR 10KOHM+-0.1% 1/8W | R419 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R349 | 0101761 | CHIP RESISTOR 2.7KOHM+-1% 1/8W | R420 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R350 | 0700076 | CARBON FILM 470KOHM+-5% 1/8W | R421 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R351 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R422 | 0700061 | CARBON FILM 33KOHM+-5% 1/8W |
| R352 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W | R423 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R353 | 0700075 | CARBON FILM 390KOHM+-5% 1/8W | R424 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R354 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W | R425 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R355 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W | R426 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R356 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R427 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W |
| R357 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W | R428 | 0700033 | CARBON FILM 270OHM+-5% 1/8W |
| R358 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W | R429 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R359 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W | R430 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R360 | 0700056 | CARBON FILM 15KOHM+-5% 1/8W | R431 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R361 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W | R432 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R362 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R433 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R367 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R434 | 0700044 | CARBON FILM 1.8KOHM+-5% 1/8W |
| R368 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R435 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R369 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R436 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R370 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W | R437 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R371 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W | R438 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R372 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R439 | 0700059 | CARBON FILM 27KOHM+-5% 1/8W |
| R373 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W | R440 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W |
| R374 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W | R441 | 0700053 | CARBON FILM 8.2KOHM+-5% 1/8W |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| R442 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R443 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R444 | 0700065 | CARBON FILM 68KOHM+-5% 1/8W |
| R445 | 0700025 | CARBON FILM 68OHM+-5% 1/8W |
| R446 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R447 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R448 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R449 | 0700051 | CARBON FILM 5.6KOHM+-5% 1/8W |
| R450 | 0700055 | CARBON FILM 12KOHM+-5% 1/8W |
| R451 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R452 | 0700072 | CARBON FILM 220KOHM+-5% 1/8W |
| R453 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R454 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R455 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R456 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R457 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R458 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R459 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R460 | 0700081 | CARBON FILM 1.0MOHM+-5% 1/8W |
| R461 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R462 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R463 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R464 | 0700029 | CARBON FILM 150OHM+-5% 1/8W |
| R465 | 0700036 | CARBON FILM 470OHM+-5% 1/8W |
| R466 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R467 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R468 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R469 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R470 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R471 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R472 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R473 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R474 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R475 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R476 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R477 | 0700038 | CARBON FILM 680OHM+-5% 1/8W |
| R478 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R479 | 0700043 | CARBON FILM 1.5KOHM+-5% 1/8W |
| R480 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R481 | 0700048 | CARBON FILM 3.9KOHM+-5% 1/8W |
| R482 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R483 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R484 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R485 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R486 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R487 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R488 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R489 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R490 | 0700047 | CARBON FILM 3.3KOHM+-5% 1/8W |
| R491 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R492 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R493 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R494 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R495 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R496 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R497 | 0700042 | CARBON FILM 1.2KOHM+-5% 1/8W |
| R498 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R499 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R500 | 0700046 | CARBON FILM 2.7KOHM+-5% 1/8W |
| R501 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R502 | 0700045 | CARBON FILM 2.2KOHM+-5% 1/8W |
| R503 | 0700037 | CARBON FILM 560OHM+-5% 1/8W |
| R504 | 0700037 | CARBON FILM 560OHM+-5% 1/8W |
| R505 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R506 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R507 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R508 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R509 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R513 | 0700062 | CARBON FILM 39KOHM+-5% 1/8W |
| R514 | 0700066 | CARBON FILM 82KOHM+-5% 1/8W |
| R515 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R516 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R517 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R518 | 0700058 | CARBON FILM 22KOHM+-5% 1/8W |
| R519 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R520 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R521 | 0700034 | CARBON FILM 330OHM+-5% 1/8W |
| R522 | 0700067 | CARBON FILM 100KOHM+-5% 1/8W |
| R523 | 0700063 | CARBON FILM 47KOHM+-5% 1/8W |
| R525 | 0700057 | CARBON FILM 18KOHM+-5% 1/8W |
| R526 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R527 | 0700049 | CARBON FILM 4.7KOHM+-5% 1/8W |
| R801 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R802 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R803 | 0104264 | CHIP RESISTOR 510 OHM+-5% 0.1W |
| R804 | 0104116 | CHIP RESISTOR 39KOHM 1/10W |
| R805 | 0104111 | METAL FILM 10KOHM+-10% 1/10W |
| R806 | 0104123 | CHIP RESISTOR 8.2KOHM+-1% 1/10W |
| R807 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R808 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R809 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R810 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R811 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R812 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R813 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R814 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R818 | 0103879 | CHIP RESISTOR 1MOHM+-5% 0.1W |
| R819 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R820 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R821 | 0103831 | CHIP RESISTOR 100 OHM+-5% 0.1W |
| R822 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R823 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R824 | 0103848 | CHIP RESISTOR 2.7KOHM+-5% 0.1W |
| R825 | 0103843 | CHIP RESISTOR 1KOHM+-5% 0.1W |
| R826 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R827 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R828 | 0103855 | CHIP RESISTOR 10KOHM+-5% 0.1W |
| R829 | 0103841 | CHIP RESISTOR 680 OHM+-5% 0.1W |
| R830 | 0103847 | CHIP RESISTOR 2.2KOHM+-5% 0.1W |
| R831 | 0103851 | CHIP RESISTOR 4.7KOHM+-5% 0.1W |
| R832 | 0103849 | CHIP RESISTOR 3.3KOHM+-5% 0.1W |
| R833 | 0103851 | CHIP RESISTOR 4.7KOHM+-5% 0.1W |
| R901 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R902 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R903 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R904 | 0700027 | CARBON FILM 100OHM+-5% 1/8W |
| R905 | 0700041 | CARBON FILM 1.0KOHM+-5% 1/8W |
| R906 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R907 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R908 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |
| R909 | 0700054 | CARBON FILM 10KOHM+-5% 1/8W |

## SEMI-CONDUCTORS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D1001 | 5339141 | DIODE 1SS270 |
| D1002 | 5339141 | DIODE 1SS270 |
| D1003 | 5339141 | DIODE 1SS270 |
| D1004 | 5339141 | DIODE 1SS270 |
| D1005 | 5339141 | DIODE 1SS270 |
| D101 | 5339141 | DIODE 1SS270 |
| D1011 | 5331031 | DIODE 1SV68-01 |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| D1012 | 5339141 | DIODE 1SS270 |
| D1013 | 5339141 | DIODE 1SS270 |
| D1014 | 5339141 | DIODE 1SS270 |
| D102 | 5339141 | DIODE 1SS270 |
| D103 | 5339141 | DIODE 1SS270 |
| D104 | 5339141 | DIODE 1SS270 |
| D105 | 5339141 | DIODE 1SS270 |
| D106 | 5339141 | DIODE 1SS270 |
| D107 | 5339141 | DIODE 1SS270 |
| D108 | 5339141 | DIODE 1SS270 |
| D109 | 5339141 | DIODE 1SS270 |
| D1101 | 5339141 | DIODE 1SS270 |
| D1102 | 5339141 | DIODE 1SS270 |
| D1103 | 5339141 | DIODE 1SS270 |
| D1104 | 5339141 | DIODE 1SS270 |
| D1105 | 5339141 | DIODE 1SS270 |
| D1106 | 5339141 | DIODE 1SS270 |
| D1107 | 5339141 | DIODE 1SS270 |
| D112 | 5339231 | DIODE 1SR35−100A |
| D113 | 5339231 | DIODE 1SR35−100A |
| D114 | 5339141 | DIODE 1SS270 |
| D115 | 5339141 | DIODE 1SS270 |
| D116 | 5339141 | DIODE 1SS270 |
| D117 | 5339141 | DIODE 1SS270 |
| D118 | 5339141 | DIODE 1SS270 |
| D119 | 5339141 | DIODE 1SS270 |
| D120 | 5339141 | DIODE 1SS270 |
| D1201 | 5339141 | DIODE 1SS270 |
| D121 | 5339141 | DIODE 1SS270 |
| D122 | 5339141 | DIODE 1SS270 |
| D123 | 5339141 | DIODE 1SS270 |
| D124 | 5339141 | DIODE 1SS270 |
| D125 | 5339141 | DIODE 1SS270 |
| D126 | 5339141 | DIODE 1SS270 |
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| D128 | 5339141 | DIODE 1SS270 |
| D130 | 5339141 | DIODE 1SS270 |
| D131 | 5339141 | DIODE 1SS270 |
| D132 | 5339141 | DIODE 1SS270 |
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| D136 | 5339141 | DIODE 1SS270 |
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| D138 | 5339141 | DIODE 1SS270 |
| D139 | 5339141 | DIODE 1SS270 |
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| D144 | 5339141 | DIODE 1SS270 |
| D145 | 5339141 | DIODE 1SS270 |
| D146 | 5339141 | DIODE 1SS270 |
| D147 | 5339141 | DIODE 1SS270 |
| D148 | 5339141 | DIODE 1SS270 |
| D181 | 5339141 | DIODE 1SS270 |
| D182 | 5339141 | DIODE 1SS270 |
| D183 | 5339141 | DIODE 1SS270 |
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| D200 | 5339141 | DIODE 1SS270 |
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| D203 | 5339141 | DIODE 1SS270 |
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| D205 | 5339141 | DIODE 1SS270 |
| D206 | 5339141 | DIODE 1SS270 |
| D207 | 5339141 | DIODE 1SS270 |
| D208 | 5339141 | DIODE 1SS270 |
| D209 | 5339231 | DIODE 1SR35−100A |
| D210 | 5339141 | DIODE 1SS270 |
| D211 | 5339141 | DIODE 1SS270 |
| D213 | 5339141 | DIODE 1SS270 |
| D214 | 5339141 | DIODE 1SS270 |
| D215 | 5339141 | DIODE 1SS270 |
| D301 | 5339141 | DIODE 1SS270 |
| D302 | 5339141 | DIODE 1SS270 |
| D303 | 5339141 | DIODE 1SS270 |
| D304 | 5339141 | DIODE 1SS270 |
| D305 | 5332791 | DIODE 1SS270 |
| D802 | 5328321 | DIODE MA151K (MH) |
| D803 | 5328321 | DIODE MA151K (MH) |
| D804 | 5328321 | DIODE MA151K (MH) |
| D805 | 5328321 | DIODE MA151K (MH) |
| D806 | 5328321 | DIODE MA151K (MH) |
| D807 | 5328321 | DIODE MA151K (MH) |
| D901 | 5339141 | DIODE 1SS270 |
| D902 | 5339141 | DIODE 1SS270 |
| D903 | 5339141 | DIODE 1SS270 |
| D904 | 5339141 | DIODE 1SS270 |
| D905 | 5339141 | DIODE 1SS270 |
| D906 | 5339141 | DIODE 1SS270 |
| D907 | 5339141 | DIODE 1SS270 |
| D908 | 5339141 | DIODE 1SS270 |
| D909 | 5339141 | DIODE 1SS270 |
| D910 | 5339141 | DIODE 1SS270 |
| IC1001 | 1361681 | IC HD44007A |
| IC1002 | 5301411 | IC NJU74HC04D |
| IC1003 | 5301611 | IC NJU74HC157D |
| IC101 | 1359991 | IC MB635120 |
| IC102 | 1342288 | IC M50558−112SP |
| IC103 | 1367401 | IC BR9021 |
| IC104 | 5301591 | IC SN74HC32N |
| IC105 | 5369911 | IC M54548L |
| IC106 | 5369171 | IC M54543L |
| IC107 | 5365673 | IC NJM2901N |
| IC108 | 5365673 | IC NJM2901N |
| IC109 | 1345791 | IC HA17807 |
| IC110 | 5366851 | IC HD74LS221P |
| IC1101 | 1360271 | IC HA118104 |
| IC1102 | 1360271 | IC HA118104 |
| IC1103 | 1360271 | IC HA118104 |
| IC111 | 5359921 | IC HD74LS74P |
| IC112 | 1343731 | IC HD74LS14P |
| IC113 | 1343721 | IC HD7406P |
| IC114 | 1343602 | IC SN74ALS574BN |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| IC115 | 1343931 | IC HD74LS244P |
| IC116 | 1340751 | IC HD74LS641P |
| IC117 | 1342242 | IC UPD4711A |
| IC1201 | 1362352 | IC NJM7809FA |
| IC1202 | 1360351 | IC NJM7805FA |
| IC1203 | 1360351 | IC NJM7805FA |
| IC1204 | 1360351 | IC NJM7805FA |
| IC1205 | 1362352 | IC NJM7809FA |
| IC301 | 1360271 | IC HA118104 |
| IC302 | 5300781 | IC M51489L |
| IC303 | 1345841 | IC NJM2233BL |
| IC304 | 1340731 | IC V7021 |
| IC305 | 1360271 | IC HA118104 |
| IC306 | 1345921 | IC UPD6336C |
| IC307 | 1362256 | IC NJM2904L |
| IC308 | 1361771 | IC M5216L |
| IC309 | 1362256 | IC NJM2904L |
| IC310 | 1362256 | IC NJM2904L |
| IC311 | 1345841 | IC NJM2233BL |
| IC312 | 1341661 | IC LM393 |
| IC313 | 5301411 | IC NJU74HC04D |
| IC314 | 1341661 | IC LM393 |
| IC315 | 5367091 | IC HA11423 |
| IC316 | 5301641 | IC UPD74HC221AC |
| IC317 | 1340681 | IC V7040 |
| IC318 | 1359451 | IC CXA1211M |
| IC319 | 1359451 | IC CXA1211M |
| IC801 | 1354352 | IC CXD1175AM |
| IC802 | 1354352 | IC CXD1175AM |
| IC803 | 1354352 | IC CXD1175AM |
| IC804 | 1340741 | IC CXD1178Q |
| IC808 | 1343541 | IC SN74S124N |
| IC805 | 1365906 | IC HD 6473378F10 VY-MXF04 |
| IC806 | 1365907 | IC HD 6473378F10 VY-MXS06A |
| IC807 | 1365772 | IC MB635130 |
| IC808 | 1343541 | IC SN74S124N |
| IC809 | 1359153 | IC HM514800LJP−8Z |
| IC810 | 1359153 | IC HM514800LJP−8Z |
| IC811 | 1359153 | IC HM514800LJP−8Z |
| IC812 | 1359153 | IC HM514800LJP−8Z |
| IC813 | 1359153 | IC HM514800LJP−8Z |
| IC814 | 1359153 | IC HM514800LJP−8Z |
| IC815 | 1359153 | IC HM514800LJP−8Z |
| IC816 | 1359153 | IC HM514800LJP−8Z |
| IC817 | 1359153 | IC HM514800LJP−8Z |
| IC818 | 1359153 | IC HM514800LJP−8Z |
| IC819 | 1359153 | IC HM514800LJP−8Z |
| IC820 | 1359153 | IC HM514800LJP−8Z |
| IC821 | 5366542 | IC PST520C2 |
| IC822 | 5364601 | IC M5278L05 |
| IC823 | 1365411 | IC HD74HC08FP |
| IC824 | 1365411 | IC HD74HC08FP |
| IC825 | 1365841 | IC HD74HC74FP |
| Q1001 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1002 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1003 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1004 | 5327071 | TRANSISTOR DTC124ES |
| Q1005 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1006 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1007 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q101 | 1320004 | TRANSISTOR 2SA854SQR |
| Q102 | 1320004 | TRANSISTOR 2SA854SQR |
| Q103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q105 | 5327076 | TRANSISTOR XDA144ES |
| Q106 | 5327071 | TRANSISTOR DTC124ES |
| Q107 | 5327252 | TRANSISTOR DTC114YS |
| Q108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q110 | 5324631 | TRANSISTOR 2SA1390C |
| Q1101 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1102 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1103 | 1320004 | TRANSISTOR 2SA854SQR |
| Q1104 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1105 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1106 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1107 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1108 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1109 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q111 | 5324631 | TRANSISTOR 2SA1390C |
| Q1110 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q112 | 5324631 | TRANSISTOR 2SA1390C |
| Q113 | 5324631 | TRANSISTOR 2SA1390C |
| Q114 | 5327071 | TRANSISTOR DTC124ES |
| Q115 | 5327071 | TRANSISTOR DTC124ES |
| Q116 | 5327071 | TRANSISTOR DTC124ES |
| Q117 | 5327072 | TRANSISTER DTA124ES |
| Q118 | 5327071 | TRANSISTOR DTC124ES |
| Q119 | 5327072 | TRANSISTER DTA124ES |
| Q120 | 5327071 | TRANSISTOR DTC124ES |
| Q1201 | 1321321 | TRANSISTOR 2SB1187(E/F) |
| Q1202 | 5327021 | TRANSISTOR 2SA844CD |
| Q1203 | 5327071 | TRANSISTOR DTC124ES |
| Q121 | 5327072 | TRANSISTER DTA124ES |
| Q122 | 5327071 | TRANSISTOR DTC124ES |
| Q123 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q124 | 5327071 | TRANSISTOR DTC124ES |
| Q125 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q126 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q127 | 5324111 | TRASISTOR 2SD1209 |
| Q128 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q1303 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q301 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q302 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q306 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q309 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q310 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q311 | 5327071 | TRANSISTOR DTC124ES |
| Q312 | 1320004 | TRANSISTOR 2SA854SQR |
| Q313 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q314 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q320 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q321 | 1320004 | TRANSISTOR 2SA854SQR |
| Q322 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q323 | 1320004 | TRANSISTOR 2SA854SQR |
| Q324 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q325 | 1320004 | TRANSISTOR 2SA854SQR |
| Q326 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q327 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q328 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q329 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q330 | 1320004 | TRANSISTOR 2SA854SQR |
| Q331 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q332 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q333 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q334 | 1320004 | TRANSISTOR 2SA854SQR |
| Q335 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q336 | 5327061 | TRANSISTOR 2SC1740S−ST |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| Q337 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q338 | 1320004 | TRANSISTOR 2SA854SQR |
| Q339 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q340 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q341 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q342 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q343 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q344 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q345 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q346 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q347 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q348 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q349 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q350 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q351 | 1320004 | TRANSISTOR 2SA854SQR |
| Q352 | 1320004 | TRANSISTOR 2SA854SQR |
| Q353 | 1320004 | TRANSISTOR 2SA854SQR |
| Q354 | 1320004 | TRANSISTOR 2SA854SQR |
| Q358 | 5327061 | TRANSISTOR 2SC1740S−ST |
| Q359 | 1320004 | TRANSISTOR 2SA854SQR |
| Q801 | 5328962 | TRANSISTOR 2SA1037K |
| Q802 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q803 | 5328962 | TRANSISTOR 2SA1037K |
| Q804 | 5328972 | TRANSISTOR 2SC2412K−BRT |
| Q901 | 5327071 | TRANSISTOR DTC124ES |
| Q902 | 5327071 | TRANSISTOR DTC124ES |
| Q903 | 5327071 | TRANSISTOR DTC124ES |
| ZD101 | 5339251 | DIODE HZS2−C3 |
| ZD103 | 5339265 | DIODE HZS9−B3 |
| ZD104 | 5339251 | DIODE HZS2−C3 |
| ZD141 | 5339297 | DIODE HZS5C3 |
| ZD301 | 5339481 | DIODE HZS2B3 |
| ZD304 | 5339257 | DIODE HZS4 |
| ZD306 | 5339291 | DIODE HZS3B1 |

## COILS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| LT301 | 5124106 | COIL |
| L101 | 0770057 | CHOKE COIL 100UH+−5% |
| L102 | 0770046 | CHOKE COIL 15UH+−5% |
| L1101 | 0770044 | CHOKE COIL 10UH+−5% |
| L1102 | 0770044 | CHOKE COIL 10UH+−5% |
| L141 | 5159147 | CHOKE COIL 33UH |
| L301 | 0770044 | CHOKE COIL 10UH+−5% |
| L302 | 0770057 | CHOKE COIL 100UH+−5% |
| L303 | 0770066 | CHOKE COIL 470UH+−5% |
| L304 | 0770056 | CHOKE COIL 82UH |
| L305 | 0770044 | CHOKE COIL 10UH+−5% |
| L306 | 0770062 | CHOKE COIL 220UH+−5% |
| L307 | 0770057 | CHOKE COIL 100UH+−5% |
| L309 | 0770057 | CHOKE COIL 100UH+−5% |
| L801 | 0773001 | CHOCE COIL 10UH+−10% |
| L802 | 0773001 | CHOCE COIL 10UH+−10% |
| L803 | 0773001 | CHOCE COIL 10UH+−10% |
| L804 | 0773001 | CHOCE COIL 10UH+−10% |
| L805 | 0773001 | CHOCE COIL 10UH+−10% |

## CRYSTALS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| XL1001 | 5778222 | CRYSTAL |
| XL301 | 5784551 | OSCILLATOR |
| XL801 | 1930011 | CRYSTAL |
| XL802 | 5778842 | OSCILLATOR |
| XL803 | 5778842 | OSCILLATOR |

## MISCELLANEOUS

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| BC101 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC102 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC103 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC104 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC105 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC106 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC107 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC108 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC109 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC110 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1102 | 0235362 | LINE FILTER |
| BC1103 | 0235362 | LINE FILTER |
| BC1104 | 0235362 | LINE FILTER |
| BC1105 | 0235362 | LINE FILTER |
| BC1106 | 0235362 | LINE FILTER |
| BC1107 | 0235362 | LINE FILTER |
| BC1108 | 0235362 | LINE FILTER |
| BC1109 | 0235362 | LINE FILTER |
| BC111 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC1110 | 0235362 | LINE FILTER |
| BC112 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC113 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC114 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC115 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC116 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC117 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC118 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC119 | 0209781 | CERAMIC CHIP 0.022UF+80−20% 16V |
| BC141 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC142 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC143 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC144 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC303 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC304 | 0209785 | CERAMIC CHIP 270PF+−20% 100V |
| BC801 | 0235364 | CERAMIC DISC 100PF+−20% 100V |
| BL101 | 5272378 | LC FILTER |
| BL102 | 5272378 | LC FILTER |
| BL103 | 5272378 | LC FILTER |
| BL104 | 5272378 | LC FILTER |
| BL105 | 5272378 | LC FILTER |
| BL106 | 5272378 | LC FILTER |
| BL107 | 5272378 | LC FILTER |
| BL108 | 5272378 | LC FILTER |
| BL109 | 5272378 | LC FILTER |
| BL110 | 5272378 | LC FILTER |
| BL111 | 5272378 | LC FILTER |
| BL112 | 5272378 | LC FILTER |
| BL113 | 5272378 | LC FILTER |
| BL114 | 5272378 | LC FILTER |
| BU1001 | 5409273 | BUZZER |
| CP1301 | 5165165 | FILTER |
| CP1302 | 5163082 | BAND PASS FILTER |
| CP307 | 5163463 | LOW PASS FILTER |
| CP308 | 5163463 | LOW PASS FILTER |
| CP309 | 5163463 | LOW PASS FILTER |
| CP310 | 5165165 | FILTER |
| CP311 | 5165165 | FILTER |
| CP312 | 5165165 | FILTER |
| DL1301 | 5165161 | DELAY LINE |
| DL1302 | 5165161 | DELAY LINE |
| DL305 | 5786131 | DELAY LINE |
| DL306 | 5165341 | DELAY LINE |
| DL307 | 5165213 | DELAY LINE |

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| DL308 | 5163483 | DELAY LINE | PG812 | 5669352 | CONNECTOR |
| GL001 | 5382391 | DIDOE GL−471 | PG813 | 5669351 | CONNECTOR |
| GPS01 | 5382062 | DIODE GP1S06E | PG814 | 5669351 | CONNECTOR |
| GPS02 | 5382351 | DIDOE GP2S05J | PG910 | 5661824 | MINI PLUG |
| GPS03 | 5333391 | TRANSISTOR NJL5161K | SWP02 | 5633693 | SWITCH |
| GPS04 | 5333391 | TRANSISTOR NJL5161K | S101 | 5635113 | SWITCH |
| GPS05 | 5382382 | DIODE GP2S07B | S102 | 5635113 | SWITCH |
| GPS06 | 5382382 | DIODE GP2S07B | S103 | 5635113 | SWITCH |
| GPS07 | 5382382 | DIODE GP2S07B | S104 | 5635113 | SWITCH |
| GPS08 | 5382382 | DIODE GP2S07B | S105 | 5635113 | SWITCH |
| GPS09 | 5382351 | DIDOE GP2S05J | S106 | 5635113 | SWITCH |
| GPS10 | 5382053 | IC GP2S04B | S1101 | 5621784 | SWITCH |
| J101 | 5695641 | PLUG | S1102 | 5621463 | SWITCH |
| J102 | 5694934 | JACK | S1103 | 5610931 | SWITCH |
| J103 | 5694862 | JACK | S1104 | 5621784 | SWITCH |
| J301 | 5655091 | PLUG | S901 | 5634921 | SWITCH |
| J302 | 5655091 | PLUG | S902 | 5635061 | SWITCH |
| LD101 | 5381668 | LED SLH34MT3 | S903 | 5635061 | SWITCH |
| LD102 | 5381668 | LED SLH34MT3 | S904 | 5635061 | SWITCH |
| LD103 | 5381668 | LED SLH34MT3 | S905 | 5635061 | SWITCH |
| LD104 | 5381668 | LED SLH34MT3 | S906 | 5635061 | SWITCH |
| LD901 | 5381667 | LED SLH34MT3 | S907 | 5635061 | SWITCH |
| LD902 | 5381667 | LED SLH34MT3 | S907 | 5635231 | SWITCH |
| LD903 | 5381667 | LED SLH34MT3 | S908 | 5635061 | SWITCH |
| MSW01 | 5610811 | SWITCH,MODE | TPS01 | 1321602 | TRANSISTOR TPS605 |
| PG110 | 5661814 | MINI PLUG | | | |
| PG123 | 5666164 | PLUG | | | |
| PG124 | 5666162 | MINI PLUG | | | |
| PG1318 | 5669353 | RF CONNECTOR | | | |
| PG811 | 5669351 | CONNECTOR | | | |

## 6. MECHANICAL PARTS LIST 〔VY-300 (E)〕

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| | | **FOR FINAL ASSEMBLY** | 132 | 6813891 | DAMPER |
| | | | 134 | 6438001 | LEG |
| 101 | 6006718 | COVER,TOP | 136 | 6006721 | COVER,BOTTOM |
| 102 | 4720189 | PANEL,FRONT | 137 | 6808681 | FELT,LEG |
| 103 | 6487315 | COVER,INK | 138 | 4890391 | BRACKET |
| 104 | 4721393 | COVER,CONTROL | 139 | 6813812 | LEVER |
| 105 | 6484653 | COVER,PAPER | 140 | 6813821 | LEVER |
| 106 | 4890483 | BRACKET | 141 | 7709091 | WASHER |
| 107 | 6009442 | COVER,REAR(L) | 142 | 6303471 | SPRING |
| 108 | 6009456 | COVER,REAR (R) | 151 | 4950351 | PROTECTOR |
| 110 | 6893561 | LATCH | 201 | 6415936 | REEL TABLE(T) |
| 112 | 6811721 | BRACKET | 202 | 6822551 | ARM |
| 115 | 6809961 | BRACKET,PWB(A) | 203 | 7778859 | POLYSLIDER WASHER |
| 116 | 6809982 | HOLDER,CBA | 204 | 4583011 | MOTOR |
| 117 | 6813761 | BRACKET | 205 | 6556461 | SPRING |
| 118 | 6528221 | PLATE,EARTH | 206 | 6347961 | WORM |
| 119 | 4899941 | BRACKET | 207 | 6440112 | GEAR |
| 120 | 6338271 | SHAFT | 208 | 6806721 | BASE |
| 121 | 5274185 | SWITCHING REGULATOR | 209 | 6564334 | DRUM |
| 126 | 6552751 | SPRING | 210 | 5579341 | MOTOR,LOADING |
| 127 | 4520651 | HOLDER | 211 | 4512211 | HOLDER,SHAFT |
| 128 | 4520652 | HOLDER | 212 | 6416482 | REEL TABLE(S) |
| 129 | 7230901 | E RING FOR SPRING MOUNTING | 213 | 7442062 | BRACKET |
| 130 | 6072702 | KNOB | 215 | 6527601 | SPRING |
| 131 | 6324432 | PREVENTION SPRING | 216 | 6901041 | REEL CHASSIS |

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 217 | 7467223 | MOTOR, LOADING |
| 218 | 6807022 | GUIDE |
| 220 | 6437381 | GEAR |
| 221 | 7873811 | GEAR ASSY |
| 222 | 6523452 | SPRING |
| 223 | 6806702 | ARM |
| 224 | 6820271 | ARM |
| 225 | 6543131 | SPRING |
| 226 | 6437412 | GEAR |
| 227 | 6556482 | SPRING |
| 228 | 6556481 | SPRING |
| 229 | 7786112 | POL SLIDER WASHER |
| 230 | 7474841 | PLATE |
| 231 | 4583081 | SLIDER |
| 232 | 6523915 | SPRING |
| 233 | 4512201 | HOLDER, SHAFT |
| 234 | 7786113 | POLYESTER SLIDER WASHER |
| 235 | 6437451 | GEAR |
| 236 | 6347983 | GEAR |
| 237 | 7469181 | PLATE |
| 238 | 6552311 | SPRING |
| 239 | 7467202 | ARM |
| 240 | 6437401 | GEAR |
| 241 | 6347971 | GEAR |
| 242 | 7789311 | WASHER |
| 243 | 6378321 | PLATE |
| 244 | 7786119 | POLISLIDER WASHER |
| 246 | 7473042 | ARM |
| 247 | 7442081 | BRACKET |
| 248 | 5610811 | MODE SWITCH |
| 250 | 7138886 | CHASSIS (L) |
| 251 | 7139231 | SHASSIS |
| 252 | 6807051 | HOLDER |
| 256 | 5443541 | THERMAL HEAD |
| 257 | 6558163 | SPRING |
| 258 | 6806841 | GUIDE |
| 259 | 6558162 | SPRING |
| 260 | 1620301 | PWB ASSY INK SENSOR (IS) |
| 268 | 6807002 | GUIDE |
| 269 | 6807013 | GUIDE |
| 271 | 1605962 | PWB ASSY PAPER SENSOR 1 |
| 282 | 1710031 | FAN |
| 301 | 7132708 | PAPER SUPPLY MECHANISM ASSY |
| 302 | 6564274 | ROLLER |
| 303 | 6564292 | ROLLER |
| 304 | 6300081 | SPRING |
| 305 | 4512121 | HOLDER |
| 306 | 6357692 | BELT |
| 307 | 6806742 | ARM |
| 308 | 6806751 | ARM |
| 309 | 6552041 | SPRING |
| 310 | 1605976 | PWB ASSY SWITCH/PAPER |
| 311 | 7787578 | WASHER |
| 312 | 6440122 | GEAR |
| 313 | 6820432 | HOLDER |
| 314 | 7467213 | ARM |
| 315 | 6564362 | ROLLER |
| 316 | 6437361 | GEAR |
| 319 | 6564341 | ROLLER |
| 320 | 4583041 | TRAY |
| 321 | 6529991 | SPRING |
| 322 | 6424441 | ROLLER |
| 323 | 6806872 | TRAY |
| 324 | 6806761 | ARM |
| 325 | 6806771 | ARM |
| 326 | 6806733 | LEVER |
| 327 | 4583091 | PLATE |
| 328 | 6556491 | SPRING |
| 329 | 6527591 | SPRING |
| 336 | 7778859 | POLYSLIDER WASHER |
| 337 | 4583061 | ARM |
| 338 | 4583051 | ARM |
| 339 | 4583071 | ARM |
| 340 | 6424451 | ROLLER |
| 341 | 6556302 | SPRING |
| 342 | 6300844 | SPRING |
| 343 | 4712961 | TRAY |
| 901 | 7784114 | SCREW (3X6) |
| 902 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 903 | 8744406 | BINDING SCREW—3MMD×6MM |
| 904 | 8691410 | SCREW |
| 907 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 908 | 87411063 | SCREW (2X6) |
| 909 | 8744406 | BINDING SCREW – 3MMD X 6MM |
| 951 | 8741405 | SCREW – 3MMD X 5MM BIND |
| 952 | 8741412 | SCREW (B3X12) |
| 953 | 8741108 | SCREW (2X8) |
| 954 | 7707531 | WASHER |
| 955 | 7774942 | E RING |
| 956 | 8741403 | BIND SCREW–3MMDX3MM |
| 957 | 8691405 | SCREW (3X5) |
| 958 | 87414303 | BIND SCREW–3MMDX30MM |
| 959 | 8812114 | WASHER – 3MMD SMALL |
| 960 | 8813114 | SPRING WASHER–3MMD |
| 961 | 0711304 | PAN HEAD SCREW—2.6MMD×4MM |

**FOR ACCESSARIES**

| SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|
| 802 | 5617196 | REMOTE HAND SET |
| 803 | 5852591 | CORD, POWER |

## 7. MECHANICAL PARTS LIST (VY-170(A))

* Correction of mechanical parts list

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| | | **FOR FINAL ASSEMBLY** | | | **FOR FINAL ASSEMBLY** |
| | | **— ADDED —** | | | **— CHANGED —** |
| 110 | 6893561 | LATCH | 226 | 6437412 | GEAR |
| 151 | 4950351 | PROTECTOR | 301 | 7132708 | PAPER SUPPLY MECHANISM ANNY |
| 216 | 6901041 | REEL CHASSIS | 315 | 6564362 | ROLLER |
| 221 | 7873811 | GEAR ASSY | | | **— DELETED —** |
| 223 | 6806702 | ARM | 335 | 1608463 | PWB ASSY DOOR SWITCH |
| 244 | 7786119 | POLISLIDER WASHER | | | |
| 269 | 6807013 | GUIDE | | | |
| 282 | 1710031 | FAN | | | |
| 307 | 6806742 | ARM | | | |
| 308 | 6806751 | ARM | | | |
| 311 | 7787578 | WASHER | | | |
| 314 | 7467213 | ARM | | | |
| 903 | 8744406 | BINDDING SCREW-3MMD×6MM | | | |
| 961 | 0711304 | PAN CEAD SCREW-2.6MMD×4MM | | | |

* Change of electrical parts (IC 706)

| SYMBOL-NO | P-NO | DESCRIPTION | SYMBOL-NO | P-NO | DESCRIPTION |
|---|---|---|---|---|---|
| | | **SEMI-CONDUCTORS** | | | |
| | | **— CHANGED —** | | | |
| IC706 | 1365903 | IC HD6473378F10VY-MXS03A | | | |

# APPENDIX

## 1. MICROPROCESSOR PIN FUNCTION TABLE

### INTERFACE MICROPROCESSOR (HD6473378F10/HD6473308F10) PIN FUNCTIONS

| Pin No. | I/O | Active Level | Abbreviation | Function | |
|---|---|---|---|---|---|
| 1 | I | Lo | RES | Initializes the microprocessor when power is turned on. | |
| 2 | | PULSE | XTAL | Generate 20MHz clock pulses for the microprocessor. | |
| 3 | | PULSE | EXTAL | | |
| 4 | I | Hi | MD 1 | Mode setting (connected to 5V power supply) | |
| 5 | I | Lo | MD 0 | Ground | |
| 6 | I | Lo | NMI | Connected to 5V power supply. | |
| 7 | I | Lo | STBY | Connected to 5V power supply. | |
| 8 | | | Vcc | 5V power supply | |
| 9 | I | Lo | CTS | CTS of RS232C I/F | ✻1 |
| 10 | I | – | RXD | RXD of RS232C I/F | ✻1 |
| 11 | O | – | TXD | TXD of RS232C I/F | ✻1 |
| 12 | | | Vss | Ground | |
| 13 | | | | Connected to 5V power supply. | |
| 16 | O | Lo | WR | Write signal for the memory gate array. | |
| 14 | | | | Not connected. | |
| 15 | | | | Not connected. | |
| 17 | O | Lo | RD | Read signal for the memory gate array. | |
| 18 | I | Hi | IFROK | When this is "Hi", the I/F microprocessor can use the memory gate array. | |
| 19 | I | Hi | BUSY | When this is "Hi", the memory gate array is accessing to the DRAM. | |
| 20 | I | Hi | C. BUSY | BUSY signal of parallel data I/F. | ✻1 |
| 21 | | | | Not connected. | |
| 22 | O | Lo | $\overline{\text{CACK}}$ | $\overline{\text{ACK}}$ signal of parallel data I/F. | ✻1 |
| 23 | O | Hi | $\overline{\text{CERR}}$ | $\overline{\text{ERROR}}$ signal of parallel data I/F. | ✻1 |
| 24 | O | Lo | $\overline{\text{CPE}}$ | PE signal of parallel data I/F. | ✻1 |
| 25 | O | Lo | $\overline{\text{CIEN}}$ | Data bus buffer input enable signal of parallel data I/F. | ✻1 |
| 26 | O | Lo | $\overline{\text{COEN}}$ | Data bus buffer output enable signal of parallel data I/F. | ✻1 |
| 27 | I | Lo | $\overline{\text{CINIT}}$ | $\overline{\text{CINIT}}$ signal of parallel data I/F. | ✻1 |
| 28 | O | Lo | $\overline{\text{BSYST}}$ | BUSY control signal of parallel data I/F. Normally, "Hi". "Lo" when reset. | ✻1 |
| 29 | | | AVCC | 5V power supply of analog circuits in the microprocessor. | |
| 30 | | | | Pulled up with 1 kΩ. | |
| 31 | | | | Pulled up with 1 kΩ. | |
| 32 | | | | Pulled up with 1 kΩ. | |
| 33 | | | | Pulled up with 1 kΩ. | |
| 34 | | | | Pulled up with 1 kΩ. | |
| 35 | | | | Pulled up with 1 kΩ. | |
| 36 | | | | Pulled up with 1 kΩ. | |
| 37 | | | | Pulled up with 1 kΩ. | |
| 38 | | | AVSS | 5V power supply of analog circuits in the microprocessor. | |
| 39 | I/O | – | CD0 | Input/output data for parallel data I/F. | ✻1 |
| 40 | I/O | – | CD1 | Input/output data for parallel data I/F. | ✻1 |
| 41 | I/O | – | CD2 | Input/output data for parallel data I/F. | ✻1 |
| 42 | I/O | – | CD3 | Input/output data for parallel data I/F. | ✻1 |
| 43 | I/O | – | CD4 | Input/output data for parallel data I/F. | ✻1 |
| 44 | I/O | – | CD5 | Input/output data for parallel data I/F. | ✻1 |
| 45 | I/O | – | CD6 | Input/output data for parallel data I/F. | ✻1 |
| 46 | I/O | – | CD7 | Input/output data for parallel data I/F. | ✻1 |
| 47 | | | VCC | Connected to 5V power supply. | |
| 48 | | | | Not connected. | |
| 49 | | | | Not connected. | |
| 50 | | | | Not connected. | |
| 51 | | | | Not connected. | |
| 52 | | | | Not connected. | |
| 53 | | | | Not connected. | |
| 54 | | | | Not connected. | |
| 55 | | | | Not connected. | |

| Pin No. | I/O | Active Level | Abbreviation | Function |
|---|---|---|---|---|
| 56 | | | VSS | Connected to 5V power supply. |
| 57 | O | – | OPA7 | Address for memory gate array. |
| 58 | O | – | OPA6 | Address for memory gate array. |
| 59 | O | – | OPA5 | Address for memory gate array. |
| 60 | O | – | OPA4 | Address for memory gate array. |
| 61 | O | – | OPA3 | Address for memory gate array. |
| 62 | O | – | OPA2 | Address for memory gate array. |
| 63 | O | – | OPA1 | Address for memory gate array. |
| 64 | O | – | OPA0 | Address for memory gate array. |
| 65 | O | – | D0 | Address for memory gate array. |
| 66 | O | – | D1 | Address for memory gate array. |
| 67 | O | – | D2 | Address for memory gate array. |
| 68 | O | – | D3 | Address for memory gate array. |
| 69 | O | – | D4 | Address for memory gate array. |
| 70 | O | – | D5 | Address for memory gate array. |
| 71 | O | – | D6 | Address for memory gate array. |
| 72 | O | – | D7 | Address for memory gate array. |
| 73 | | | VSS | Ground |
| 74 | | | | Not connected. |
| 75 | | | | Not connected. |
| 76 | O | Lo | $\overline{\text{IFREQ}}$ | When this is "Lo", the I/F microprocessor is using the memory gate array. |
| 77 | O | Lo | RTS | RTS of RS232C I/F. |
| 78 | I | – | IFSCK | Serial communications clock pulses from system control microprocessor. |
| 79 | O | – | IFDATA | Serial data to system control microprocessor. |
| 80 | I | – | S. DATA | Serial data from system control microprocessor. |

✻1: "Hi" in the VY-170.